

The Mining Journal

RAILWAY AND COMMERCIAL GAZETTE.

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

NO. 776.—VOL. XX.]

London, Saturday, July 6, 1850.

[PRICE 6D.]

AT CRAIGIOG LEAD MINE, LLANARMON, NEAR MOLD, FLINTSHIRE.
MR. HILL will SELL, BY AUCTION, on Friday, July 12, 1850, all the BUILDINGS, PUMPING ENGINE, BOILERS, MATERIALS OF SEATING AND FIRE GRATES, 100 yards of strong 12-inch PUMPS, made of good cold blast iron; cistern and rods, 35 yards of pumps and clack-pipes, for a 12-inch pump; CASTINGS, WROUGHT-IRON WORK, BOILER-PLATES, smiths' tools, guns, caps, staves, ropes, pulleys, and other materials.

For catalogues apply to the auctioneer, at Oswestry.—Mr. William Challenor, of Llanarmon, will show the lots.

IMPORTANT IRON, COPPER, AND TIN-PLATE WORKS.

MESSRS. SHUTTLEWORTH and SONS have been favoured with instructions from Trustees under a Mortgage Document to SELL, BY AUCTION, at the Auction Mart, in London, on Friday, the 25th of July, at Twelve o'clock, the valuable and important ESTABLISHMENTS of the GOVERNOR AND COMPANY OF COPPER MINERS IN ENGLAND, in CWM AVON, in the county of GLAMORGAN.

The establishment at Cwm Avon is of the most complete and finished character, and includes every power and engine essential for carrying on, in the most economical manner, and on a large scale, every branch of the Iron, Tin-plate, and Copper Trades. The buildings under which the property is held include several thousand acres of land, abounding in rich veins of superior bluish-white coal, including all the veins of argillaceous iron ore of the lower measures, which supply the large iron-works of South Wales; and, in addition, the black-head iron ore, which is wrought at a very low price per ton. The collieries, the levels and pits, working afford almost an unlimited supply of cheap mineral, with an average of 8 miles of the shipping port.

The establishment, which was erected at a cost of nearly half a million sterling, consists of the following separate works:

IRON TRADE.—Seven blast-furnaces complete, capable of producing from 850 to 900 tons of pig-iron per week, with coke ovens and refiners attached; 3 puddling and 5 rail and bar mills of the best construction, which are capable of producing 3000 tons of finished bar or rail per month.

THE TIN-PLATE FORGES and MILLS are capable of working up iron for finishing 1000 boxes of tin-plates per week, with chemical works attached, for the purpose of extracting during the conversion of wood into the necessary supply of charcoal, for this branch of trade, the naphtha, acetic acid, and other products, and also for the supply of sulphuric and muriatic acids.

THE COPPER SMELTING-WORKS, which are under one roof, are capable of smelting about 600 tons of ore, equal to 50 tons of refined copper per week, and possess unusual convenience for the supply of water and the cheap deposit of slag. The copper rolling-mill is one of the largest in Wales, with hammers, rolls, &c., attached.

THE FIRE-BRICK MILL can turn out 100,000 bricks per week.

In the centre of the works is a large enclosed stowage for stowage of all goods, and also a line of workshops complete in every respect, with the necessary steam-engine, machinery, and tools, for the supply of all kinds of pattern-makers, joiners, sawyers, fitters, hatters, smiths, and founders' work required for a large establishment. The offices for conducting the business in the centre of the works are most complete. There is an excellent manager's house a short distance from the works, whilst detached in convenient localities are about 1000 neat four-roomed cottages, with sufficient houses of a better class for the respective agents and workmen, sheeps, and a large square, fitted for the purpose of a market, and excellent stabling for upwards of 300 horses. The advowson of the parish of Michaelstone is in the gift of the vendors, and meeting-houses, reading-rooms, libraries, and schools, have been established for the use of the workmen. The executors, works, and buildings, with the exception of two of the blast-furnaces, are in the parish of Michaelstone, held by the company for an unexpired term of 90 years, and the control of the population connected with the works is thus beneficially under the managing director of the works. The whole of the works are connected by rail or tram-roads with the collieries and the shipping port, which is distant only 2½ miles, and the South Wales Railway passes close to the premises.

The premises may be viewed by application to John Biddulph, Esq., Coal-park House, adjoining the works; and particulars obtained in due time at the general office of the establishment, in Cwm Avon; of Messrs. J. C. and H. Freshfield, solicitors, New Bank-buildings; of Messrs. Tilson, Square, Clarke, and Morris, solicitors, Coleman-street; at the Auction Mart; and of Messrs. Shuttleworth and Sons, 28, Poultry.

THE FOREST COPPER WORKS and GRAIGOLA COLLIERY, near SWANSEA, GLOUCESTERSHIRE.

MESSRS. SHUTTLEWORTH and SONS have received instructions from the Trustees, under a Mortgage Document, to SELL, BY AUCTION, at the Mart, on Friday, the 26th of July, at Twelve o'clock, a portion of the important ESTABLISHMENTS of the GOVERNOR AND COMPANY OF COPPER MINERS IN ENGLAND, comprising the FOREST COPPER WORKS, with all the necessary ERECTIONS, BUILDINGS, MACHINERY, APPARATUS, TOOLS, IMPLEMENTS, and APPENDAGES adequate to the smelting of 350 tons of ore, or 45 tons of copper per week—the works being in every respect complete, and the furnace bottoms remaining untouched, the premises occupying about 60 acres of land, advantageously situated between the Swansea Canal and the navigable River Tawe, about 3 miles from Swansea, in the county of Glamorgan.

Also, the GRAIGOLA COLLIERY, situated about 7 miles from the port of Swansea, worked by level, and one of the descriptions of steam-packet coal admitted for tender in the Government contracts.

The premises may be viewed by application to Mr. Edmonds, at the works, of whom particulars may be obtained in due time, also at the general office of the Company, at Cwm Avon; of Messrs. J. C. & H. Freshfield, solicitors, New Bank-buildings; of Messrs. Tilson, Square, Clarke, and Morris, solicitors, Coleman-street; at the Mart; and of Messrs. Shuttleworth and Sons, 28, Poultry.

TO CONTRACTORS, BUILDERS, AND OTHERS.

TO BE SOLD, BY PRIVATE CONTRACT, THE ENGINES, MACHINERY, &c., which have been used in the erection of the Britannia-bridge, consisting of ONE 40-horse HIGH-PRESSURE ENGINE, with 18-inch cylinder, and 3-foot 6-inch stroke, with boiler complete, drum and hoisting gear; ONE 25-horse HIGH-PRESSURE ENGINE, with 14-inch cylinder, and 2-foot stroke, with portable boiler complete, drum and hoisting gear; travelling cranes, landing cranes, setting machines, single and double purchase crabs, blocks, chain and tackle of every description, and of first-rate quality.—Application to be made to Messrs. B. J. Nowell and Co., at the works, Britannia-bridge, Bangor, North Wales.

HYDRAULIC ENGINE.—FOR SALE, BY PRIVATE CONTRACT, at Crossgill Copper and Sulphur Mines, near GARRIGILL GATE, ALSTON MOOR, a valuable PRESSURE ENGINE, used for pumping water out of the Crossgill Mines, which has been little used, made by Messrs. Hawthorn, Leslie, of Newcastle; consisting of horizontal cylinder, 9-inch diameter, 9-foot stroke; 4 double Cornish valves, 4½-inch diameter, and hand gear of the most improved construction; about 40 fathoms of pressure pipe, all in good condition, and well calculated for mining, colliery, or other purposes.—Also.

1. Wheel for drawing work, with 2 pulley wheels and frames.

1. Crane and rope, 1 three-shaft block, and 1 snatch block.

3. Wheel tube, 1 narrow, and 6 ladders; smiths' tools, spear plates, and screw bolts.

Timber and planking, rack and manger, 2 bedsteads, cupboard, and tool chest.

Mr. Cuthbert Peart, of Alston, will give further information; and Mr. Douglas, of Westgate-street, Newcastle; or Mr. John Dolphin, Hunter House, Derwent, will treat with applicants for sale.

There are also 30 fathoms of metal pumps in two stands, with working barrels, 6 in. in diameter, 4 feet stroke, with buckets, clacks, and spears, which may be taken with the engine.—June 27, 1850.

FOR SALE, BY PRIVATE CONTRACT, at the Charlestown United Mines, near ST. AUSTELL, the following MINING MATERIALS—viz.:

1. 70-inch cylinder DIRECT ACTING PUMPING ENGINE, 10-feet stroke, with two boilers, about 22 tons, and cast-iron balance-bob.

1. STEAM-ENGINE DRAWING MACHINE, 96-inch cylinder (8-feet stroke in the ordinary year case), &c., complete, with 1 boiler, about 10 tons.

1. WATER WHEEL, 20 feet diameter, and 7 feet breast, with cast-iron axle, cranks, &c., complete, 1 ditto 10-foot diameter by 4 feet breadth by 4 feet breast.

Also PITWORK—namely: 1 plunger lift, 36 fathoms 17-inch pumps, complete, 1 ditto, 1 70-inch cylinder DIRECT ACTING PUMPING ENGINE, 10-feet stroke, with two boilers, about 22 tons, and cast-iron balance-bob.

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COMPANIES PROCEEDING UNDER THE WINDING-UP ACT.

MADRID AND VALENCIA RAILWAY.—Very considerable interest was manifested on Monday in connection with the affairs of this undertaking, in which several thousand persons are interested. On the occasion of the hearing of a charge brought on by Mr. Quilter, the official manager, at the direction of Master Blunt, against the directors of this company, calling upon them to account for the funds entrusted to them by the shareholders. The charge of the official manager was addressed to—

William Chadwick, Esq., 29, Montague-square, and of Sydenham, Kent; and to Mr. James Anderson Rose, 11, Salsbury-street, Strand, his solicitor.

Gideon Colquhoun, Esq., of Walmer-lodge, Avenue-road, Regent's Park.

John Charritte, Esq., of Park-village-Street, Regent's Park.

John Capper, 1, Adelaide-place, London-bridge, merchant; and to Messrs. Marten, Thomas, and Hollister, 31, Commercial-Sale-rooms, Mincing-lane, his solicitors.

Count Eyre, 7, Hinde-street, Mincing-lane; and to Messrs. Bircham, Dalrymple, and Drake, 46, Parliament-street, his solicitors.

J. Knill, Esq., of Fresh-water, Thames-street, and his solicitors.

James King, Esq., 21, Gloucester-road, Hyde-park.

Nicholas McCann, Esq., 39, Parliament-street.

Joseph Maffetoro, Esq., 1, Winchester-buildings, City.

Colonel Edward Stupford, late of 9, Manchester-square, now of 36, Lowndes-square.

The Hon. Charles Polhill Villiers, 27, Regent-street, Middlesex.

Solomon Jacob Waley, Esq., 29, Devonshire-place; and his solicitors, Messrs. Amory, Nelson, Travers, and Wynn, 25, Throgmorton-street.

William Lechmere Whitmore, Esq., 19, James-street, Buckingham-gate.

The following counsel and solicitors appeared:—Mr. Selwyn, for the official manager and his solicitors; Mr. G. Wale, for Mr. Waley; Mr. Bagallay, for Messrs. Capper and Knill; Mr. Bircham, for Count Eyre; Messrs. Lewis and Nash, for Mr. McCann and several others.

His Honour, the MASTER, proposed to take evidence in support of the charge, so as to make the directors liable; and accordingly Mr. Quilter, the official manager, after producing the ledgers and books of account, proceeded to prove the receipt of the moneys with which the directors stand charged, by calling in evidence one of the clerks of Messrs. Masterman, the company's bankers, who proved that between the 10th of October, and the 27th of December, 1845, a sum of 106,030*l*. was paid into the bank by way of deposit to the credit of the Madrid and Valencia Railway Company, and entered to the account of Messrs. Chadwick, Colquhoun, and Knill, as trustees.

On the other side of the account payments were entered to the extent of 90,322*l*, including caution-money and investments in stock—leaving a balance of 11,888*l*. in April, 1846.

He also proved from the books that the caution-money paid into the Bank of England was 37,120*l*, with 56,718*l*. invested in Exchequer-bills in October, 1845. He produced letters, one dated the 9th of October, 1845, opening an account with the Bank to the credit, and by the order of the three trustees; another dated the 21st of October, 1845, from Chadwick, Colquhoun, and Knill, and from Montefiore and Waley, giving directions to the bankers to honour all cheques signed by three of them and the secretary, Fowell; and another letter to honour cheques signed by two only and the secretary, Fowell. Subsequent letters to honour cheques, drawn by members of the provisional committee, were also produced, and put in, dated respectively March 16, 1846, October 4, 1845, and May 2, 1849.

Mr. FOWELL, the late secretary of the company, was then examined by Mr. Selwyn to prove the documents of the company. He identified the original prospectus, the letters of allotment, and the scrip approved of by the committee. He proved that at a board meeting it was resolved that 500 shares should be allotted to each of the committee of management, but that afterwards this amount being thought too large, was reduced to 250 each, which were allotted. He deposed to the adoption by the committee of the title of the letters of allotment which held their names forth as members of the committee; but it did not appear that Count Eyre attended any board meeting, although he was summoned, and called occasionally at the office for information. With the exception of Count Eyre, he proved that all the other members attended some meetings of the committee and signed scrip that was issued, besides discussing and approving of the form of the letter of allotment. With the exception of Mr. Whitmore, all the directors paid the 2*d* deposit on their 250 shares. When he last saw the minute books of the company, a year and a half ago, they were in the possession of Mr. Chadwick, the chairman of the company.

Mr. KEDDIE, of the firm of Keddie, Baker, and Grant, of Lime-street, late solicitor to the company from its formation down to July, 1848, was next examined. Had attended every meeting of the directors, and prepared the draft of the letter of allotment, with the names of the directors on it, by the general authority of the board. There was a formal discussion, not as to its wording, but as to the beauty of the colouring, the ink, flourishing, and blanks. It was discussed at several meetings of the board. Did not recollect the names of those who were present; but his conviction was that at some or all were present, excepting Count Eyre, who had 500 shares, he believed. All the money paid into the bank was paid on this draft of allotment letter. The names of the directors were on the original draft when he drew it. Was appointed solicitor by resolution of the board. As regarded the manner in which the committee was appointed, it was in this way. About half-a-dozen preliminary meetings of gentlemen interested in getting up a railway in Spain took place between Austinfriars and Throgmorton-street. He declined to mention their names; but on going to the latter place he was asked if he would be solicitor, and a prospectus, all completed and printed, was ready to be issued, and the committee having been got together, the scheme was advertised to the world. The committee of management was not appointed until such a great number of applications for shares was received as to give them assurance to go on with the scheme. The company was never provisionally registered. Was consulted thereon, but, under his advice, no steps were taken for the purpose.

This being the case on the part of the official manager, a long and desultory discussion followed, the result being an adjournment of the further hearing, to give time to the parties charged to go over the evidence and prepare their reply. This section of the proceedings having terminated at one o'clock, his Honour, the Master, adjourned until two o'clock, at which hour a perfect torrent of allottees and attorneys entered the place of meeting, about 1400 shareholders having been summoned to show cause why, as original allottees of different numbers of shares, they should not be placed on the list of contributors. To facilitate the business and clear the court, the Master directed that all those who appeared to oppose their being placed on the list should enter their names in the appearance book, and their cases be adjourned for hearing to a future day; while all those, and there were some hundreds, who did not answer on their names being called out by Mr. Edwards, the chief clerk, were placed on the list as liable, without power to dispute the same, unless by special leave of the Court of Chancery. This proceeding occupied until four o'clock, at which hour the Master rose to attend the House of Lords.

Considerable surprise and dissatisfaction has been felt at the fact of Mr. Chadwick, the chairman of this company, having been allowed to remove himself out of the jurisdiction of the Court of Chancery, when, by the issue of a *scire facias*, he might have been detained and called to account. Mr. Rose, his solicitor, still declines to give up the papers, unless an undertaking is given to pay his lien on them of 500*l*; and Vice-Chancellor Knight Bruce has decided that he is not bound to answer any questions, or disclose what documents he has, unless his lien is first paid, it being held that the Winding-up Act does not destroy a solicitor's lien for costs, and that he is not bound to deliver over papers while they remain unpaid. Should there be anything to return to the shareholders consequent on the winding-up of the affairs, a question will arise whether it should go to the original allottees or present holders of scrip. It is understood that, out of the 106,000*l.* received as deposit, 30,000*l.* went in caution money, 30,000*l.* in buying up shares, and 30,000*l.* to the late chairman. Some 20,000*l.* was expended for surveys, directors, and general purposes. At present, it is believed that there are no funds in hand, and unless the directors are made to refund the contribution necessary, the expense of winding-up will be considerable. There are 17,000 shares at present claimed and registered, out of 53,000 allotted; and 30,000 having been bought up, there are not above 7000 shares outstanding and not registered. It is believed that 10,000 shares are in the hands of purchasers, bought at 10*s*. and 20*s*. a share, and a question will arise whether the scrip was legally transferable.

DIRECT WEST-END AND CROYDON RAILWAY.—On Tuesday, in dealing with the cases of the provisional committee of this company, Master Tinney decided upon placing all on the list as liable, though they attended no meetings of the body, accepted no shares, but paid money on account of debts, and allowed their names to appear on the prospectus. There are about 106 of these gentlemen. Counsel for Mr. Kreeft contended that the only capacity in which he had acted was that of a referee for allotments of shares, and that consequently he could not have been a provisional committee-man. His Honour, the Master, held otherwise, on the production of the solicitor of the company, in Mr. Kreeft's own handwriting, and in which he said, "I have within the last week been applied to for payment of debts in respect of the Croydon and West-end Railway, of which I have the misfortune to be a provisional committee-man." Mr. James Lamb was similarly fixed.

GREAT WESTERN AND IPSWICH, AND SOUTHAMPTON RAILWAY.—The winding-up of this company's affairs was before Master Farrer, on Thursday, on the petitions of Mr. R. Hollingsworth, tobacco manufacturer of Birmingham, and Mr. J. Moloday, of Marble Hall, Warwick, who state that the undertaking was started with the view of connecting the principle railways on the western, southern, and eastern counties, so as to unite Yarmouth, Ipswich, Harwich, Colchester, Southampton, and Portsmouth, at a cost of 1,800,000*l.* There were 180 names on the provisional prospectus, with "power to add to their number." Mr. Hollingsworth states that he took 200 shares, and paid the deposit upon them. Mr. Pritchard, the original projector, was appointed engineer, and completed plans and surveys for the line from Colchester to Harford, but the panic, with its accompanying consternation, set in, and further proceedings were suspended. The directors afterwards subscribed to discharge the claims of creditors, but the subscriptions were insufficient. Actions were brought against the directors, and the present debts are estimated at about 3000*l.* Mr. Quilter is appointed official manager.

DIRECT BIRMINGHAM, READING, & OXFORD RAILWAY.—Master Brougham has given directions for summoning 1300 persons connected with this concern, to show cause why they should not be fixed on the list as contributaries.

WATERFORD, WEXFORD, AND WICKLOW RAILWAY.—Sir William Verner has given notice of his intention to move for a committee to inquire into certain allegations contained in petitions presented on the affairs of this company, and which are alleged to affect the character of various members of the House of Commons.

ROYAL BANK OF AUSTRALIA.—On Tuesday, after three consecutive sittings, Master Richards decided in favour of the claim of Messrs. Prescott, Grote, and Prescott, the bankers, for 3063*l.* against this bank. It appeared, from a voluminous mass of correspondence put in evidence, that in 1840, Mr. James Hannen, now out of the country, had a large claim against parties in Sydney, for which he employed the bank to obtain payment. In 1842 he assigned the debt to Messrs. Prescott, in respect of advances due to them. Part of the money was paid, but in 1848 the directors pleaded inability to meet the remaining demand. Actions were afterwards brought against four shareholders in the company, but these actions have become stayed under the Winding-up Act. The official manager produced the books of the bank, in which the debt is treated as a debt due to Messrs. Prescott, in answer to which it was contended by Messrs. Farquhar and Johnston, solicitors for various shareholders, that Mr. Benjamin Boyd, who eventually received the money, was the agent of Prescott and Co., under power of attorney, and deed of ratification, and by which they sanctioned an arrangement by way of compromise in 1846, with that gentleman in Sydney. His Honour, on a review of the facts, decided it was clear that Boyd was the conduit-pipe or instrument through which the bank acted in Sydney; whatever Boyd did the bank did, and he was confirmed in this view by letters and entries in the bank books admitting the debt, and under all the circumstances he felt bound to admit the claim as proved.

WESSEXIAN NEWSPAPER ASSOCIATION.—The Master proposes to make a second call of 4*s*. per share on the shareholders, to repay the debts.

KINGSLAND AND DALSTON LITERARY INSTITUTION.—Master Brougham has just settled the list of shareholders in this undertaking, which was started in 1846, by Robert Laing, of the Independent Gas Works, Haggerstone; S. E. Lee, of Dalston; T. Uzelli, and others, with a capital of 3500*l.*, in share of 10*l.*

SEA FIRE AND LIFE ASSURANCE COMPANY.—Master Tinney has appointed an official manager to wind up the affairs of this company, the promoters of which undertook to insure against the perils of the sea and fire. Its promoter, Augustus Collingridge (according to the petitioner for the winding up of the company, Mr. Joshua Richardson, C.E., of Neath) absconded and left England in April last. The concern was completely registered in 1849, and continued until May, 1850, after incurring various liabilities, which have to be ascertained. The capital was to be 100,000*l.*, in 100,000 shares of 1*l*. each; and the original directors were A. Collingridge, Sir William Ogilvie, Howell Gwyn, M.P., and Alexander Davis. A call of 20*s*. per share was made, but a large portion of the shareholders refused to pay it. Petitioners state, that actions have been brought and judgments recovered against him.

INDEPENDENT ASSURANCE COMPANY.—Debts of 645*l.* from the solicitor, and 199*l.* from other parties, have been proved before the Master, who has disallowed the claim of Mr. Cope, the secretary, for 120*l.*, being of opinion that any sum called for under his order, to answer the liabilities of the company, would not be funds of the company within the meaning of the memorandum of 1849.

BASTENNE BITUMEN COMPANY.—Petitions have been presented for winding-up the affairs of this company, the promoters of which established it for the purpose of introducing into the metropolis and elsewhere a patent kind of pavement.

IRISH FISHERIES.—An important private meeting of Members of the House of Commons was held yesterday, in one of the committee rooms, Mr. HERBERT, Member for Kerry, in the chair, who was supported by the Lord Mayor of Dublin, Col. Dunne, and several other members connected with Ireland. The object of the meeting was to consider a proposal for cultivating the fisheries of Ireland. In addition to Members, several influential gentlemen connected with the wholesale fish trade were present. The plan proposed to be worked out has originated with Mr. John Whiteway, an English gentleman, who is intimately acquainted with the Irish fisheries, and the character of the natives embarked in that occupation. The plan may be briefly stated to be to employ well-manned smacks, of about 80 tons burthen, for the deep sea fisheries, to be attended by a steamer to bring the fish to shore, and to carry out bait and provisions to the crew, thus saving the necessity of the vessels leaving the fishing grounds till the time fixed for their return to port has arrived. Such a plan would enable one boat daily to be dispatched to Weston-super-Mare from Valentia, with all the superior fish for the London, Bristol, Bath, Cheltenham, and Birmingham markets, whilst that fish which finds the readiest sale in Ireland would be forwarded to all the inland towns by rail and cars. Fishing stations would be established along the coast for curing for home and foreign consumption, thereby giving employment to large numbers of the population. It proposes to supply the fishermen with gear and tackle, and purchase their catch at remunerative prices, so as to deliver them from the tender mercies of the middlemen, who prey upon their industry. An able statement of the plan, more in detail, was read by Mr. Ward, which gave rise to an animated discussion, and terminated in the plan being well received and highly complimented. The following resolution was passed:—"That the Members conducted with Ireland, now assembled, approve of the objects which are proposed by the statement which has just been read to them; and although it is impossible at once to assent to the many and varied details contained in it, yet are of opinion that it contains much valuable information and statistic; and they are further of opinion that company formed for the purposes of fishing on the west coast of Ireland, judiciously conducted, and provided *bond fide* with capital, would be an apology to the names of that much maligned hero.

SOUTH AUSTRALIA.—Prices of shares at Adelaide on the 14th Feb.:—Burra Burra, 160*s*. cash, sellers; Princess Royal, 46*s*. credit, sellers; Mount Remarkable, 10*s*.; Port Lincoln, 5*s*.; Belvedere, 2*s*. 10*s*.; Strathalbyn, 5*s*. (paid); Wheal Gawler, 10*s*.; Wheal Barton, 13*s*. 10*s*. (the affairs of this promising mine are kept very quiet; from all we can learn, about 40 tons of ore may be expected in the town next week; free buyers, 15*s*. three months); Wheal Maria, 2*s*. (a sale of 50 shares was taken at 36*s*. 6*d*.); Wheal Margaret, 12*s*. 10*s*. (par); Mount Liverpool, 5*s*. (paid); upwards of 180 shares have changed hands during the week, but a liberal discount is allowed for cash; Faringa, 30*s*.; Victoria, 9*s*.; North Kapunda, 26*s*.; Adelaide, 20*s*.; Royal, a sale of 80 shares was made at 5*s*. net cash (1*s*. paid); Royal Consols, North Rhine, and Gold Company, shares not issued. Money much easier, and offering at 15 per cent. for long periods, solely because securities offering at higher rates are not considered eligible.

At the half-yearly meeting of Wheal Maria Mining Company, the balance-sheet showed the balance of cash in hand to be nearly 350*l.* There are 30 tons of ore at grass, averaging 25 per cent. yield.

A favourable report on the Wheal Margaret Mine had been received from Capt. Richard Pauli, in which he expressed himself as well pleased with the dressing department, the jiggling machine answering first-rate.

The surgeon of the Ready Creek Mine had been greatly censured for neglect in not obeying a summons to an accident; the terms of his appointment require his attendance within a distance of 10 miles, and the doctor endeavours to excuse his conduct under the plea that John's Creek (where he was required to attend) was nearly 12 miles from where he resided, and that a horse was not required for conveyance.

WESTERN AUSTRALIA.—A ponderous specimen of silver-lead ore had been exhibited from the Geraldine Mine. It resembles closely the ore from Wheal Margaret, and promises well in other respects. Tangible proof is now afforded of the mineral wealth abounding in this new, or rather re-discovered, country.

From the Geraldine Mine copper has been discovered, and some extent of good country. The silver-lead mine is about 60 miles from Champion Bay, and 200 miles from Perth. Coal and timber fuel being abundant in the neighbourhood of the mine, there are great facilities for smelting the ores upon the spot.

The Australian Agricultural Company are sinking a shaft into a seam of coal of much greater thickness and of a superior quality to that they are now working. The pit is about two miles from the company's wharf at Newcastle, and preparations have long been making for connecting the pit with the wharf by a railway. The necessary iron and other materials for this work have arrived in the colony, so that in a few months coal from the new pit will be sent to Sydney. A further reduction in the price of coal will then take place. In future the company's chief officer in the colony is to be called "general superintendent," and not "commissioner." Mr. J. E. Ebsworth is to be the superintendent.

SYDNEY.—Manufactured copper has not varied much, being constantly sold at 1*s*. to 1*s*. 1*d*. per lb. for nail, and 1*s*. and 1*s*. 2*d*. for sheathing. The ore is now being produced in considerable quantities from various mines that have been recently opened, part of which has been smelted, and is becoming an article of regular export to India, where it sells at 15*s*. to 18*s*. per ton.

COAL.—A letter dated Alexandria, June 18, says—"There is again a rumour afloat of coal having been found in the upper country, and Hekekyan Bey, an Armenian, educated in England, has been dispatched to the place by the Viceroy to ascertain the fact. The site talked of at present is on the eastern bank of the Nile, opposite to Edfou, about four miles from the river side."

From Labuan, we learn that the coal-mining operations were making very slow progress; it had occupied from January 7 to April 10, to furnish 270 tons of coal for the use of the Semiramis. A great many Chinese and others were about to leave the colony in quest of more acceptable employment. Mr. Surveyor Scott remained in charge of the Government.

COAL TRADE OF GREAT BRITAIN.—There are upwards of 8000 coal mines in Great Britain, which employ nearly 250,000 men, women, and boys, underground and above, termed hewers, pitmen, trappers, staiths, and harbours, altogether exceeding 30,000,000*l.* in value; and the "get of coal," as it is technically termed, amounts to 34,000,000 tons annually; the estimated value of which, at the "pit's mouth," is 10,000,000*l.* Of this enormous quantity of coal one-third is raised in the Northumberland and Durham districts, whence the chief exports of the kingdom are made by the rivers Tyne, Wear, and Tees, both foreign and coastways. The chief points of home consumption are in the ironworks of Staffordshire, South Wales, and the West of Scotland; which, with the lesser works of North Wales, Shropshire, Yorkshire, and Derbyshire, consume nearly one-third of the whole. The residue is consumed in smaller manufactures generally, such as those of cotton and woolen, the salt works, &c.; and by the population of large towns for domestic purposes.—Report on Coal Traffic, by Braithwaite Poole, Esq., F.R.S.

METROPOLITAN SEWERS.—A parliamentary paper of 22 folio pages has just been printed, showing the receipts and expenditure of the General Commissions of Sewers in force from the 1st January, 1845, to the 31st December, 1849. The total receipts for the five years (1845 to 1849), including the general cash-balance in hand on the 1st January, 1845, was 470,778*s*. 10*d*.; whilst the expenditure in the period was 461,943*s*. 15*s*. 11*d*., leaving the general cash-balance in hand on the 31st December last 9234*s*. 13*s*. 11*d*. The receipts from the 8th October to the 31st December last, a little more than two months, were 22,797*s*. 9*s*. 1*d*., and the expenditure 19,974*s*. 0*s*. 7*d*.

FOREIGN INTELLIGENCE.

WEST INDIES.—The *Trust* arrived at Southampton on Tuesday, having on board freight silver and gold from the Pacific ports, received via Panama, value \$754,617*s*; gold from California, value \$228,266*s*; specie from Cartagena, value \$132,611*s*; from Santa Martha, \$80,614*s*; from Jamaica, \$730*s*; and from other parts of the West Indies,

Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK.

TUESDAY.....Deep River Mining Company—offices, at Two.
Colonial Bank—London Tavern, at Twelve for One.
Imperial Fire Insurance Company—offices, at One.
WEDNESDAY .. Guadaluca Silver Mining Association—offices, at Two.
Union Bank of London—offices, at Twelve.
THURSDAY .. Royal Santiago Mining Company—offices, at One.
City of Toronto and Lake Huron Railway Company—offices, at Twelve.
FRIDAY .. Arigna Iron and Coal Company—George and Vulture Tavern, at One.
General Cemetery Company—offices, at Two.
East and West India Dock Company—offices, at Two.

[The meetings of Mining Companies are inserted among the Mining Intelligence.]

CAMERON'S COALBROOK STEAM COAL AND SWANSEA AND LOUGHOR RAILWAY COMPANY.

An extraordinary general meeting of shareholders of this company took place at the offices, Moorgate-street, City, on Tuesday, the 2d instant, to consider a resolution passed by the directors for making a further call of 2*l*. per share, for the purpose of making the line of railway from the Coalbrook coal-fields to the port of Llanelly, and for other purposes.

E. G. WINTHROP, Esq., in the chair.

Mr. HOWDEN, the secretary, read the following notice to the meeting:

Whereas the funds or property of the company, at the disposal of the board of directors, being insufficient to carry on the concerns of the company, and it being thought advisable to call for more than 2*l*. per share of the capital or joint-stock of the company for the purposes of the company, the board of directors did, on the 15th day of June instant, come to a resolution, in the words and figures following—that is to say—"Resolved, that all the co-partners shall be, and are hereby called upon to pay a further instalment of 2*l*. on the several shares held by them respectively, in the capital or joint-stock of the company, in addition to the several instalments, amounting together to the sum of 8*l*., which have been paid, or called up on the said shares—such instalment of 2*l*. per share to be paid and payable on the 10th day of September, 1850, at the Commercial Bank of London." Now, notice is hereby given, that an extraordinary general meeting of the registered shareholders of the said company will be held at the company's office, No. 2, Moorgate-street, London, on Tuesday, the 2d day of July, 1850, at one o'clock in the afternoon precisely, for the purpose of entering into a resolution to confirm the said resolution of the board of directors.

The SECRETARY said the advertisement had appeared in the *Times*, the *Mining Journal*, and the two Swansons papers. He then exhibited a number of proxies from absent shareholders in favour of the resolution now proposed.

Mr. STRELLY would ask if all those shareholders who had sent in their proxies had paid their calls? (Hear, hear.)

The SECRETARY replied in the affirmative, and said the proxies represented from 400 to 500 shares.

The CHAIRMAN said, this extraordinary general meeting was called solely for the purpose of confirming the call which, on the 6th of December, 1849, was unanimously agreed, should be made by the directors at a meeting of shareholders. Although the meeting had been called for this purpose only, he expected, and was prepared, to answer a great many questions as to the present state of the company, and its future prospects. (Hear, hear.) He could assure the meeting that the directors would not think of making a further call on the shareholders, unless they had the greatest possible idea of its producing good to this dilapidated company—dilapidated from no fault in the property itself, for it was undoubtedly good, but from bad management; nor did he ever hear of one substantial reason why such a company could not be carried out profitably. (Hear, hear.) They had as good a mine—from the report of their manager, who had no reason to state anything that was false—not the best, in South Wales; they had the finest coal there, and in great abundance, but they could not work it without the assistance of the shareholders. This company had been surrounded with difficulties, and the directors had to contend with a body of shareholders at variance with one another, which had brought them into their present state of depression, and had nearly lost them this valuable property. It was really marvellous how the directors had so long stood their ground; and nothing but a conviction of the real sterling value of their property could have induced him to adhere so long to the company. What was it now they applied for? Why, not a large sum of money, but only that which would make their property immediately profitable to the shareholders; and this sum of money must be had immediately, to save the property of the company. Their line of railway was now progressing daily, and, from their communications with Mr. Atkinson, they found it was going on satisfactorily. (Hear, hear.) Under their contract they had certain payments to meet each month, and a portion of the cost of the line was at that moment due. On receiving the estimate of the work done, the directors were bound to pay 30 per cent. upon it; this was one thing that was immediately pressing. Would it not be perfect madness to allow the line to be stopped for the small sum now required? The chairman concluded by urging the shareholders not to allow their property to be sacrificed, but to act unanimously in support of the resolution.

Mr. STRELLY said, he had great pleasure in moving that the resolution for a further call of 2*l*. be confirmed, from a conviction that the directors had not made that call from a momentary suggestion, but after much deliberate consideration. (Hear, hear.) It was really lamentable to see how their money had been hitherto frittered away. He was glad to see that the directors were now acting like men of business; and he had no doubt, by agreeing to this call, the shareholders would in a very short time be in a position to congratulate each other on having weathered the storm, and that they had been of the number who had stood by the ship, in spite of all dangers. (Applause.)

Mr. GODDARD (of Ipswich) seconded the motion. He thought it behoved all the shareholders to strengthen the hands of the directors at the present moment; indeed, nothing but that course would save the company. (Hear, hear.) He, for one, thought they were under great obligations to the directors, for the great exertions which they had displayed under the difficult circumstances in which they had been placed.

The CHAIRMAN then submitted the resolution as above described, which was passed unanimously.

The CHAIRMAN alluded to the valuable services of Mr. Smallbone, who came into the direction at a time when many were requested to join it, but all refused. He dare say it would be different now, for when the egg was full, there would be plenty to suck it. (Laughter.)

Mr. SMALLBONE (a director) felt satisfied that what they had done would be found, on reflection, satisfactory to the gentlemen who formed that company. He had met them on several occasions, and had, always maintained that, if they had undertaken what they were now doing four or five years ago, they would have found themselves in a vastly different position. (Hear, hear.) Instead of putting their hands in their pockets, they would have been in the receipt of profits from a valuable property. He felt from the first time of joining the company the necessity of a transit for their coal; instead of looking to this, all the schemes adopted by the board had been futile. It was a pleasure to find that the directors now saw the necessity of doing so; and, in three months' time, he hoped to see this company in a position to bring their coal to market fairly and honestly, and even by that time to afford the shareholders something for their patience. (Applause.) He had worked for them in their difficulties, and he was not going to work backward, but would work forward; for, in doing so, he saw the greatest chance in the world for the board of directors, with the co-operation of the shareholders, making this a most profitable undertaking. (Hear, hear.) If the shareholders would now support him and his co-directors, he would continue to stick to his work, though at inconvenience to himself, and do his utmost for the benefit of the shareholders.

Mr. STRELLY said, a friend near him stated that many would now, he dare say, pay their calls without law proceedings. (Hear, hear.)

Mr. SMALLBONE said, he had always set his face against law proceedings. The directors would have no objection to extend the time to suit the convenience of shareholders. It must be borne in mind that they were not going into the payment of large sums; and that what the directors were now doing was for the benefit of themselves, as well as their brother shareholders. He trusted they were now in such a position that the shareholders in default, from their own good sense, would see the policy of paying up their shares, not only for their own benefit, but as an act of justice to the other shareholders, who had paid their calls punctually. (Hear, hear.) It would be bad policy of any of them, he thought, postponing this act of justice too long, or till they saw great advantages to be obtained; for they might then come to ask favour which he and the other directors might not be very willing to grant. (Laughter.)

A SHAREHOLDER asked about the coal produce.—Mr. SMALLBONE replied, that as soon as the transit was ready they could put on the line 200 tons a day, or 70,000 tons a year.

Captain NORCOTT, R.N.: And that from the present openings, and for three or four years in succession. (Hear, hear.)

The CHAIRMAN said, this would not only pay a large dividend to the shareholders, but would create a fund to be set apart for their great "win-

ning," whereby their produce of coals might be increased to any amount. There was nothing, in his opinion, to hinder them from making this one of the first undertakings in the world as a coal company. (Hear, hear.)

Mr. HUGHES would have been glad, had the directors acted before as they were now doing, to have paid up his 10*l*. at once. (Hear, hear.)

The CHAIRMAN thought the best way to convince gentlemen, for the shareholders at this meeting to appoint a committee to look into the whole matter for themselves. The directors would be happy to accede to it, for it might lighten their labours to some extent, and would, perhaps, tend more to satisfy the shareholders. (Hear, hear.)

A SHAREHOLDER thought this very straightforward of the directors.

The CHAIRMAN was glad to see a larger meeting than he expected, and hoped those present would tell other shareholders what had transpired at this meeting.

Mr. GODDARD wished to know what were the liabilities of the company at the present moment?

Mr. SMALLBONE thought it better to defer answering that question till the annual meeting at the end of this month, when the accounts would be fully prepared.

Mr. GODDARD asked if any of the creditors were pressing?—The CHAIRMAN thought they would not be so, now saw the directors were in earnest.

Capt. NORCOTT said that was the real fact, for it would be against their interest to be too pressing, seeing the directors were doing all they could to strengthen the company and to make it profitable; but the contractors must be looked to immediately. (Hear, hear.)

Mr. SMALLBONE said he could give a good reason for paying up this call, which was that by doing so the shareholders would work off 24,000*l*. of debt—that is to say, in the purchase money, which he thought ought to be very satisfactory. (Hear.)

Mr. HUGHES asked when the solicitors' bill would be forthcoming? Mr. ELDERTON said, he knew nothing to prevent it being delivered some days before the next general meeting.

The CHAIRMAN observed, that it would be impossible to present a fair balance-sheet without the expenses of the solicitor. (Hear, hear.)

Mr. SMALLBONE would again impress upon the shareholders the real value of the property of this company, so widely different from many of the vagabond companies of the present day, which brought ruin upon thousands of innocent people.

Mr. ELDERTON wished it to be understood that no one had worked harder than himself since the commencement of the company.

Mr. GODDARD then moved a vote of thanks to the chairman and directors for their able and impartial conduct, and for the way in which they had striven to bring the company out of its difficulties. (Applause.)

Mr. GREEN seconded the motion, which was passed by acclamation.

The CHAIRMAN, in returning thanks, said he would only observe, on the part of the directors and himself, that he was extremely obliged by the honour due to the board by passing such a vote of thanks. It was certainly due to them he really believed; but in doing their duty to the shareholders, they were also doing it to themselves as large shareholders. To see this company swamped for the want of an inconsiderable sum of money, after all that had been expended, would be the height of insanity on the part of the shareholders, and for himself he was not so inclined; he could assure them; for he was convinced that, by the assistance of the shareholders, they would meet with a good reward in their future prosperity. (Applause.)—The meeting then separated.

LEGAL AND COMMERCIAL FIRE ASSURANCE SOCIETY.

The annual general meeting of this society was held at the company's offices, Cheapside, on Thursday, the 4th inst.

Mr. Alderman and Sheriff LAWRENCE in the chair.

Mr. BOWSER read the following report:

Your directors have much pleasure in again meeting the shareholders at this annual meeting, and in being enabled to present an encouraging report of the affairs of the society. The past year has been one of considerable trial, in consequence of the formation of several new offices, some of which have, in some degree, interfered with the connection originally attached to this society; and particularly in consequence of the reduction, by the older establishments, of the extravagant rates charged on warehouses and other extensive premises, and the more active competition with this society which resulted therefrom; your directors, however, have the satisfaction to report that this competition, while it has proved most beneficial to the public, has not had the effect intended, of inducing the assurers with this society to abandon those by whom their interests have been so greatly promoted. Your directors have the satisfaction to report the appointment, during the past year, of 138 new agents; during the same period 2413 new policies have been issued, averaging 858*l*. each, and that the income of the society has increased from 7265*l*. 1s. 8d. to 8228*l*. 9s. 5d.

Your directors again refer to the principle on which this office is conducted—viz., the exclusion of all extremely hazardous risks, and the experience of the past year has fully confirmed them in their reliance on the soundness of this principle, inasmuch as, during the past year, your directors, adhering to this rule, have thought fit to decline several proposals offered for insurance, which have been since destroyed by fire, whereby a loss of about 400*l*. had been avoided.

The general character of the risks undertaken may, however, be better judged by comparing the gross receipts of premiums for the past three years with the claims for fires within the same period. The amount received for premiums has been 18,482*l*.; the claims paid, 8482*l*.; leaving a surplus of 10,000*l*. After defraining all the preliminary expenses, the amount paid for interest of the shareholders, the current charges of management, and the expense of establishing agencies, there remains still a disposable balance of 1034*l*. 3s. 7d.

This balance would have been greater, but for the large expenses necessarily incurred in the formation of the office, and in establishing about 510 efficient agencies in all parts of England, Wales, and Scotland: much of this expense will not arise again, and so much of it as consists in the establishment of agencies your directors are convinced will prove to be a good investment of the funds of the society, as by these means the business is daily increasing. The progress of the Society may be further manifested by a comparison derived from the parliamentary returns of the duties on five insurances, paid to Government by this office, during the last three years—in 1841, the duty was 2043*l*.; in 1848, 4846*l*.; in 1849, 6460*l*.; and an inspection of the returns will also show that the rate of increase in the amount of duty paid by this office is greater than that obtained by almost any other establishment of however long duration.

By the terms of the Deed of Settlement, the following directors go out of office in rotation—viz.: William Cook, Esq.; Robert Ellis, Esq., M.D.; Frederick James Hall Esq., and John Gladstone, and, being eligible, offer themselves for re-election. Your directors beg to recommend that interest, at the rate of 5 per cent., should be paid to the shareholders on the amount of the paid-up capital. It only remains to impress upon every shareholder the great importance of using the utmost exertion among his friends and connections to promote the interest of the society. Your directors acknowledge, with much satisfaction, the strenuous efforts of many of their constituents, and they cannot doubt that the past success of the society will stimulate them to renewed activity and perseverance.

The CHAIRMAN, in moving the adoption of the report, entered into a lucid statement, in explanation of some points bearing on the position of the society, of a most favourable nature, and general satisfaction was expressed by the shareholders.

The report was adopted, and the retiring directors, who, it was stated, had given an average attendance at the office of 59 times each during the year, were re-elected unanimously.—Interest, at the rate of 5 per cent. per annum, was declared on the paid-up capital of the society.

After a vote of thanks to the directors, and also to the chairman, the meeting separated.

NEW ZEALAND COMPANY.—At an adjourned meeting held on Thursday, it was finally resolved to surrender the charter of the company to her Majesty's Government.

SOUTH SEA COMPANY.—At a court of proprietors, held on Thursday last the usual half-yearly dividend of 1*l* per cent. was declared, being at the rate of 3*l* per cent. per annum.

GREAT INDIAN PENINSULA RAILWAY.—This company are about to freight 1000 tons of iron rails to Bombay for the construction of their permanent way.

RAILWAY CALLS FOR JULY.—The amount falling due during the present year is 2,479,892*l*.—of which 80,000*l*. is for foreign companies. The total amount of calls for the year is 8,694,984*l*.

MODEL REPORTING.—Mr. Ralph Dodd made a report to the Sunderland Docks commissioners on the 28th of July, 1793, on the river, harbour, and piers, the leading feature of which was the conversion of what is now called the *Botany* Garth into a wet dock of upwards of 13 acres in extent, with two pairs of gates. The lower entrance enabling ships to get out to sea at almost all times, and the upper entrance, as near the west end as possible, allowing ships and keels also to pass to and fro. The style of Mr. Dodd's report is much at variance with that of ordinary engineers, and the following sample will be amusing, if not instructive, to our readers:—“Does any one wish to have a just idea of the extensive trade of this port? On a sea tide let him go where once I stood; no sooner there, than casting my eyes to the southward, over the curling crystal flood, as Homer beautifully observes, I saw a wood of ships, a zephyr was gently fanning them to the port, all sails drew, and their streamers were waving in the wind. This prominent point (the pier end) where I stood, stretching on the sea, soon became thronged. Here, with glad steps, came some of Eve's fairest daughters. Some hung on their arm the cherub form, and by their side their tender offspring led. What glittering eyes of gladness were fixed on this fleet; some to parents, some to husbands, some to lovers! Does the artist want a subject of nature to paint joy and gladness by? He cannot be better served than here; and for sadness, on the days of departure, he would see the half-closed eye, with the crystal tear dropping down many a fair cheek.”

HISTORY AND MANUFACTURE OF GUNPOWDER.—No. XI.

BY JOHN JOSEPH LAKE, OF THE ORDNANCE DEPARTMENT.

One of the most remarkable, as well as most recent, adaptations of gunpowder in Europe is in the war rocket. But the idea was by no means new. Indeed, Sir William Congreve never claimed the credit of originality. The Agneaster of the Hindoos, which is supposed to have been a sort of rocket, has been already referred to, and, during the middle ages, there appears to have been something of a kindred nature used in Europe. Jonville states that “it was thrown from the bottom of a machine called a petrav, and that it came forward as a large barrel of verjuice, with a tail of fire issuing from it as big as a great swan, making a noise in its passage like thunder, and seeming like a dragon flying through the air, and, from the great quantity of fire it threw out, giving such a light that one might see in the camp as if it had been day.” So terrified was the army of King Louis at it, that a knight, named Gautier de Cariel, recommended that, when open was discharged, they should all fall prostrate, and beseech God to deliver them from the danger against which he alone could protect them, which was actually done. It is thought by some that this is a description of the celebrated Greek fire, but it would certainly seem rather to apply to a rocket than to burning liquid. The first certain account of the war rocket in Europe occurs in a work entitled *Traité Militaire*, by Hanzelot, published in 1598. A chapter in this work is headed “*Comment l'on peut tirer droitement une fusée à fleur d'orizon ou autrement*,” and in it is a description and wood-ent, showing the use of a rocket for military purposes. General Desaguliers tried many experiments, with the view of bringing it into use, but eventually abandoned the idea. Sir W. Congreve was, however, more successful, for he rendered the flight of this weapon more regular, and gave it a greater range. He also considerably reduced the length of the stick, and removed it from the side to the centre of the rocket. He further improved it by making the case of sheet-iron.

On the first introduction of the rocket, it was imagined that it would supplant, or totally alter the practice of artillery, and that it would be equally applicable for battering fortifications or slaughtering men, and Congreve proposed that cavalry, infantry and artillery, should alike be furnished with a supply, and it certainly seemed to possess peculiar advantages. Its magnitude seemed unlimited; it is very portable, free from recoil, can be rapidly discharged, and is very destructive to buildings, setting fire to them when discharged amongst them. These sanguine expectations have not been realized, a want of sufficient regularity in flight rendering the rocket unfit for many purposes. Nevertheless, it is a useful and important arm, and further improvements of it may yet be admitted into the service.

The rockets now used in the service do not at all come up to the dimensions that Congreve first intended should be made, and they fall immeasurably short of some of which travellers give us descriptions. In Col. Symes's *Embassy to Ava*, page 173, it is related that “the display of rockets was strikingly grand. The cylinders of the rockets were trunks of trees, 2 or 3 ft. in circumference; these were bound by strong ligatures to thick bamboos, 18 or 20 feet in length. They rose to a great height, and, on descending, emitted various appearances of fire that were very beautiful.” Col. Symes, page 432, referring to some still larger rockets, says that, for cylinders, “the trunks of trees, bored in the manner of a pump, were used—the cavity of the cylinder 9 or 10 inches in diameter, the wood 2 in. thick, and length from 12 to 20 ft.” Some of these rockets are said to weigh from 1000 to 2000 lbs.; and in Siam, it appears that they are used as instruments of execution—the criminal being bound to one, it is either discharged perpendicularly or along the ground, and the unfortunate creature is thus put to death in a most cruel manner. These large rockets show the great familiarity which the natives of the East have with their manufacture; it will not, therefore, be a matter of wonder to know that they used them much as we have them at present a long time before us. In the translation of the *Memoirs of Eradut Khan*, a Hindoo nobleman, by Capt. Jonathan Scott, of the company's service (London, 1786), “a rocket's flight” is frequently given to denote a certain distance; and the translator, in a note at page 36, says—“The rocket in India is used in war, and the chamber being made of iron, does execution wherever it strikes, but cannot be sent in true direction; it will reach from 300 to 400 yards.”

Some experiments were conducted in India in 1824, as to the relative merits of Congreve's rockets and some prepared by Major Parby of the gunpowder-works at Allahabad; and it would appear by the report of the committee that the latter were much superior in regularity of flight and direction. But Major Parby's improvements have

MINING IN THE EAST OF CORNWALL.

[FROM A CORRESPONDENT.]

Having returned from a visit to Cornwall, I forward you particulars of a few mines which I had an opportunity of inspecting:—

WHEAL SHEA (Stoke Climsland).—This sett has now commenced working, under the management of Mr. Vatcher, of Exeter, with every prospect of becoming a rich and productive mine. The lode in the adit end contains good stones of ore, averaging 6*1/2* per cent., by the assay of Mr. Harvey, of Liskeard. It is situated to the west of the great cross-course which bounds the copper ore of the Callington district. That talented and scientific geologist, Mr. Evans Hopkins, has visited this mine and the adjoining one (Wheal Tom), which is situated in Deer Park, Stoke Climsland, at the foot of Kit Hill, and contains several tin and copper lodes in a congenital stratum, and, at no distant date, will prove a productive spot for mineral riches. At present there has been a small adit driven, and a shaft or two sunk, sufficient to show the prospects of the undertaking.

From thence we proceeded to **TRETHEVY MINE**, situated within the range of the Caradon district. The engine had been erected (45-inch cylinder), and had that day commenced operations, amidst vociferous cheers of the miners. We understood the shaft had been sunk to the 30 fathom level. The water being too powerful to be kept by the water-wheel, they were compelled to erect an engine to fork it; the old adventurers having declined to do so, the property fell into the hands of Mr. Vatcher, who soon obtained a spirited company to carry on the operations, and it is now worked with spirit and vigour, under the superintendence of that active captain, John Seymour, who seems to understand his work well. We understand the South and West Caradon cross-course runs through this sett, which is in kilas, and within a few hundred fathoms south of both the above mines, with every probability of becoming, after the expenditure of a few thousands, equally productive. It is nothing but fair to state, that the money already expended under the direction of Mr. Vatcher, Capt. Seymour, and Mr. Mathers, engineer, has been expended with the strictest economy. This looks well for the future workings. At Caradon Vale they were busy in building the engine-house, the engine being already purchased, and on the mine. In the course of a few weeks it will be erected, and at work. This is also under the management of Mr. Vatcher, who has a strong and respectable company of the gentry in the vicinity of Exeter.

WHEAL GILL will shortly go to work under the same parties. We are glad to see our Devonshire friends, whose hospitality is unbounded, and whom we wish a most hearty success in all their undertakings, have chosen such excellent spots for the outlay of their spare capital, and if prudence, talent, economy, and good management can make good mines, combined with the geological features of the county, the strata and the lodes, there can be little question that the result will be a handsome return for the outlay made.

After our day's work, we adjourned to Webb's Hotel, Liskeard, where, with Mr. Evans Hopkins in the chair, an evening of enjoyment was passed, and best wishes expressed for success to Trethevy Consols, which was responded to by Mr. Vatcher, and followed by speeches from Messrs. Hopkins, Matthews, Bartlett, Seymour, Sparge, &c.

CARADON UNITED, in the same district, has been worked with spirit, but with little success at present, although it is supposed the riches lie a little further east; if so, they may obtain them, as from their spirited outlay, they deserve success.

Further to the east lies the great gun of the year, **PHOENIX**; here Captain Seccombe has met with that which he has so long sought for, and which he so richly deserves—a rich and productive mine. There is no mistake here; the lode is worth at least 100*1/2* per fm., and the ore the richest in Cornwall—12*1/2* per cent., as last sampling shows. This has been obtained through the prudent management of Capt. Seccombe, who, we were informed, was offered an annuity by a German who held a large interest in the undertaking, to give up the mine. Capt. Seccombe replied, "No; I must pay you back the money I have expended for you, and the interest." We understand, from good authority, that although the mine has been working for nine years, the whole of the expenditure will be repaid out of the returns made this year; and a gentleman at Manchester, who is a large holder in the undertaking, has been the means of keeping the mine going to the present time. We say he deserves the thanks of the adventurers, and we heartily congratulate Capt. Seccombe on his success, and hope he will live many years to enjoy it.

At **WEST CARADON** we met Capt. Buzzo and Dunstan, both of whom gave us every information respecting the mine, and treated us with the greatest hospitality. Here they have what many others want, a good and productive mine, with every appearance of a lasting one.

We left here for **BODMIN MOOR CONSOLS**, where we found they had made a recent discovery of a fine tin lode, worth 50*1/2* per fm., with every probability of increasing as they get deeper. The sett is large and extensive, with several other lodes in it, and all machinery erected for proving the mine, and stamping the ore for market. There was about 4 to 5 tons of tinstuff at surface, averaging 45*1/2* to 50*1/2* per ton, with plenty of water-power for all mining purposes.

TREGEAR CONSOLS (St. Kew).—We found several new discoveries in this sett of antimony and silver-lead lodes, which, from appearances at surface, contain riches in depth. The miners were busy in carrying on operations on the mine, and dressing the ore on the floors, which lay in abundance. From the appearance of the country, combined with the size of the lodes, and the gossan and ore already raised, there can be little doubt of this making a rich and productive mine, and worthy of the attention of capitalists.

On our return we visited the Exeter district (Hennock), particulars of which I will forward you for next Journal.

WHEAL MAY MINE—FACTS, NOT FICTION!

TO THE EDITOR OF THE MINING JOURNAL.

SIR.—Exaggerated statements in mining statistics are, as you well know from long observation, more calculated to divert the attention of capitalists from mining adventures than even doubtful opinions as to future prospects, or the questionable character of individuals to whose management funds may be intrusted. In your Journal of the 22d June, appeared an account—I will not say report—of a meeting at Wheal May adventurers. I am sorry a good report of that meeting was not given, or that a paragraph, containing a summary of the proceedings, did not occupy the space allotted to your reporter's.

Reference was again made to the meeting I allude to, in last week's Journal, in answer to a correspondent, who had signed himself "Miner, Camborne;" and it is to you reply thereto given that I more particularly address myself. Your reporter was certainly not in error in recording, with his other notes, the statement which in the Journal was "purposely omitted, as being so extravagant." Many assays have been made of ore from the newly-discovered valuable lode in Wheal May sett. The result has been more favourable than even the announcement of a yield of 26 per cent. of copper, and 100 cts. of silver to the ton of ore would show. This is no exaggeration; neither has this return been entirely given from selected stones. One of the adventurers, in order to see that the mine was actually opened, went from London to Cornwall, and visited the workings. This gentleman is a tradesman of high standing in the City; and had no idea whether the ore he saw was worth a ducat or a dolt. Before entering into the adventure to any considerable extent, he determined to obtain an assay from an eminent and experienced analytical chemist, well known to him—unbiased, and not connected with a single mine. With this view, he broke a quantity of ore from the lode himself; and, without selection, had a box filled and sealed in his presence. This was brought to London, and the ore crushed to a fine powder. A portion was then handed to the scientific gentleman alluded to; and his analysis shows 32*1/2* per cent. of copper, in addition to the silver.

From other samples obtained from the same lode, the following are the results ascertained by the same analyser:—500 grs. after cupelling, equal to 2*1/2* grs. of silver, which is equivalent to 149*1/2* ozs. of silver to the ton of ore. Another 500 grs., taken from a fresh lump of the same sample, and assayed in the same way, gave, after cupelling, 2*1/2* grs. of silver, which is equivalent to 151*1/2* ozs. of silver to the ton of ore: 100 grs. of the same sample, but from a fresh lump, analyzed in the wet way for silver and copper, gave 0*58* per cent. of silver, which is equivalent to 156*1/2* ozs. of silver to the ton of ore; there was besides rather more than 2*1/2* per cent. of copper. The other sample— one large lump, and two smaller ones, were treated separately; 500 grs. of the larger lump, previously well pulverised, yielded 2*2/3* grs. of silver, which is equivalent to 161*1/2* ozs. (nearly 162 ozs.) of silver to the ton of ore. The two smaller lumps being pulverised together, and then assayed like the above, 500 grs. yielded, after cupelling, 0*51*, which is equal to 36*1/2* (say, 36*1/2*) ozs. of silver to the ton.

With such results as these, admitting that some of the samples were selected, the fact is strongly proved that a statement of the mine yielding 26 per cent. of copper and 100 ozs. of silver to the ton, is not an absolute fiction. But, further, the results given above are confirmed by other assays—particulars of which I am ready to show to any person; but cannot encroach too far upon your kindness by asking for the space which their insertion would occupy.

A still more startling confirmation of the richness of Wheal May Mine has come to light. I believe I can openly assert, that the committee of Wheal May Mine are prepared to prove, on the oath and testimony of respectable individuals, that stones of ore were removed from Wheal May workings to a new mine, now being extolled before the public as having yielded a stone containing considerably more than those of which the assays are given! But we wish to be at peace with our neighbours; and it is not for me to enter into a contest with those who have committed this piracy.

I have no doubt but that our workings will soon more substantially confirm the announcement you considered "extravagant;" and, as proof of the confidence which shareholders have in the mine, I am happy to announce that there is daily an increasing interest; and now that the mine is before the public on its own merits, and a unanimous committee formed, the quibbles of disaffected individuals will no longer interfere with the welfare of the adventurers.—HENRY FEET, Secretary: *Old Broad street, July 5.*

Mining Correspondence.

BRITISH MINES.

ALFRED CONSOLS.—The shaftmen will resume the sinking of Field's engine-shaft under the 70 fm. level on Tuesday, the 2d instant. The lode in the 70 fm. level, west of shaft, is without change since my last report; and at the same level east the lode is quite equal to the last week's report—that is worth 90*1/2* per fm.; and the lode in the winze sinking under the 60 fm. level, east of the engine-shaft, is from 6*1/2* to 8 fm. wide, worth from 90*1/2* to 100*1/2* per fm. There is no change in any of our other working operations during the past week; our tribute pitches are looking well.

BARRISTOWN.—The lode in the 30 fm. level east is small, but carrying very regular walls; during the week we have had a branch of lead in the bottom of it, about 1*1/2* fm. wide. This end has been driven about 14 or 15 fms. on the lode, and there should be a winze sunk in the bottom of this level, to prove it going down. The lode in the rise in the back of the 26 fm. level continues pretty much the same, making lead very irregularly, sometimes a branch 3 fm. wide, and at other times very little. The men stopping the ground to the east of it have very little ore at present. In the winze sinking under the 30 fm. level we have a lode which came in from the north side, about 1 fm. wide, grey part 3 in. thick, thinly mixed; although it came in very irregular, it is now forming a better wall as it goes down. I consider this the part of the lode we drove for the 30 fm. level west on, and in the 30, the south part of the lode driven east is 2 fm. south of this part, which may also be the same in this level; this may be accounted for by the winze in sinking not taking so great an underlay south as the lode; we can soon prove this by driving a few fathoms south in the 40 cross-cut, and also by stopping on the course of the lode in the bottom, or under the 30 fm. level, when the winze is held, which cannot possibly take more than a few days longer to accomplish. The cross-cut in the 18 fathom level driving south presents no change. The lode which is now forming in the bottom of the winze should be driven west, or in the 40, as its course will be a cross-cut for the new lode.

BEDFORD UNITED.—The lode in the 102 fathom level east is still worth 4 tons of ore per fm. In Andrew's winze, in this level, the lode is rather improved, being 2*1/2* feet wide, and producing saving work. There has been no lode taken down in the 90 and 80 fm. levels. Bray's winze, in the 90, is communicated to the 103 fm. level, and the men are set to stop west in the back, in which the lode is worth 4 tons of ore per fm. The pitch in the back of the 80 fm. level is still yielding 6 tons of ore per fm. The lode has been taken down for about 3 fms. in length in the 70 fm. level, and is about 2*1/2* fm. wide, producing good stones of black and yellow ore—a kindly lode, but not rich. We weighed at Morwelham on Friday, April 18, 118 tons 9 cwt., and sampled May ore, computed 116 tons.

BODMIN MOOR CONSOLS.—Our lode improves in going down; it is now 3 fm. wide, thin throughout. Our stamps are erected, and the floors nearly complete, with a good pile of ston ready for stamping. The tin is fine, and free from both mud and woodfram.

CARADON VALE.—Our operations here are progressing with much satisfaction; the engine-house is up, and the roof on. The engine is on the mine, and the engineers are busily engaged putting it in; it is a very good piece of machinery—I never saw a better little engine took abroad. The boiler is 11 tons weight, and a very good one, worth full 130*1/2*. The shaftmen are engaged cutting coatean plat for water cistern, and fixing lide for same. The engine will be in course of working in about three weeks.

DAREN.—The bottom, or new adit, is got into an ore lode for 2 or 3 feet wide, not rich, but with sufficient indents to show the value of the ground before use. There is also a large stream of water cut in the cross-cut from the western engine-shaft towards the Coomysing lode, with some on in the heads of slate, and laminae of carbonate of lime, the water being of a highly coloured ferruginous cast. The ore ground throughout the mine has generally improved, and miners are every day seeking to take bargains, to raise ore at rather low tributes. The crusher will be delivered in a few days, the driving gear is erected.

DEVON AND COURTENAY CONSOLS.—We have had a hard floor of the engine-shaft since my last report, which has retarded our progress in sinking, but I am glad to say that it is leaving the shaft, and a better shift of ground is coming into it, which is strongly mineralised; there are branches of copper ore, mudiic, &c., in it, which strengthens my opinion that we shall have an improvement in the next level. The 50 is and unproductive, and the ground at present rather hard. There is no alteration to notice in the pitches in the adit.

DYNGWYN.—We have set a new stope in the bottom of the adit level west of the sink steel ore; the lode is large, and very ore, and throughout there appears a change in the strata, the clay-slate being of a softer nature and lighter colour, by far more congenial for lead, and not so much impregnated with blende and copper. We have communicated the sink steel ore below the 16 fm. level with the rise above the 22 fm. level by means of a borer; there is about 9 ft. of ground to cut, and then we shall have a direct communication from the adit to the 22 fm. level. In Davies's stope the men have stopped 3 fms. 1 ft. 10 in. of ground; the lode is large, and producing some good lead, but it is impregnated with blende and copper. In Thomas's winze the lode is full 8 ft. wide, mixed with clay slate, quartz, carbonate of lime, copper, and lead; and knowing that copper and lead ore is a good ore, we may expect to see the lode get more defined and settled at a deeper level. Evans's winze, west of engine-shaft, has not been sunk during the past month, the water being in it; the men have been engaged stopping a piece of ground from the bottom of the diagonal shaft to the engine-shaft, to let off the water from the 22 fm. level. I intend to-morrow to set the clearing of the diagonal shaft to three men. In the dressing department we are progressing favourably; I hope to get 12 tons for shipment by Saturday next. I must conclude by saying that no time shall be lost in carrying out the works mentioned in my report, and have every reason to believe that, when we can see a 42 and 22 fm. level open, we shall have a first-rate mine.

EAST CROWNDALE.—The lode in the 40, west of middle shaft, has improved since we commenced driving, and is now in the present end worth 10*1/2* per fm.; in the end driving east at this level the lode already seen is 4 ft. wide, producing a little tin; but we believe that more lode remains to the north, which we will find when we are down next week, and will inform you of its value as soon as possible. We are also likely to say that this side is stored in its appearance of a very favourable character, and would, therefore, recommend sinking the middle shaft as soon as convenient. We have commenced a trial winze in the bottom of the 28, which will throw some light on the lode going east; this winze is already sunk 5 ft., and the lode in the bottom is worth 5*1/2* per fm. It is not yet convenient to increase our tribute pitches. Our sampling will be about the usual time, but as to quantity we cannot speak accurately, as a great portion of the work remains yet to be stamped, but we expect not less than 10 tons. As regards driving at any intermediate point, we are of opinion that this is unnecessary while we drive the 40, and we do not think of driving on the north lode as yet.

EAST TAMAR CONSOLS.—Our usual monthly survey was held on Friday, and I beg to hand you the following remarks on the operations for the current month. The 70 fm. level north is still in a hard bar of ground, and the lode is unproductive; but there is a good lode in the level above, and in a winze sunk a short distance before the end. We are, therefore, in daily expectation of a favourable change. In the 60 fm. level north the lode is worth 7 cwt. of ore per fm., and likely to improve. In the 60 fm. level south the lode is composed of gossan, spar, and lead, worth 6 cwt. of ore per fm., and altogether presents very promising indications. In the 26 fm. level, north of Fazhill shaft, the lode is composed of capel and ore, yielding good work. Carrol's shaft is sunk 10 fm. below the 11 fm. level, under adit, and we have commenced driving north and south on the course of the lode, which is very easy for driving, and will yield good payable work. In the 26 fm. level, north of Church-lane shaft, the lode is 4 ft. wide, and worth 6 cwt. of lead per fathom. South of the shaft this level is cleared for upwards of 30 fms., and we have discovered ground that will set at a moderate tribute, and pay well; we have set two pitches in the back of this level, at 10*1/2* and at 10*1/2* fm. Gullett's engine-shaft is being cleared, and, as we are not incommode with water, we are making rapid progress. Gallett's whm-shaft is also being cleared, and we shall soon be in a position to clear the levels. The tribute department continues to yield the usual returns, with a fair prospect of improvement.

ESGAIR LLEE.—Our pay and setting was on the 29th June, of which was an account:—The deep adit, west of the junction, on the caunter lode, by six men, 4 fm. stent, or the month, at 10*1/2* per fm. The 12 fm. level, east from the surface, on the caunter lode, by six men, 4 fm. stent, or the month, at 5*1/2* per fm. A winze to sink below the 12 fm. level from surface, on the caunter lode, by nine men, 3 fm. stent, or the month, at 9*1/2* per fm. A winze to sink below the mouth of the shallow adit, on the caunter lode, by six men, 4 fm. stent, or the month, at 5*1/2* per fm. The stops in the bottom of the shallow adit, west of Morgan's winze, to carry all the lode, or 4*1/2* fm. wide, by six men, 8 fm. stent, or the month, at 2*1/2* fm. per fathom; the stops in the bottom of the shallow adit, east of Morgan's winze, to carry all the lode, or 4*1/2* fm. wide, by six men, 8 fm. stent, or the month, at 2*1/2* fm. per fathom. The caunter lode, in the deep adit, west of the junction, is 3 ft. wide, and will yield about 10 cwt. of ore per fm.; the same lode, in Owen's winze, below the 12 fm. level, is 3 ft. wide, yielding about 20 cwt. of ore per fm. The caunter lode in the 12 fm. level, from the surface, is much disordered with blende and mudiic, and produces 5 or 6 cwt. of ore per fm. The caunter lode in Harding's winze, below the mouth of the shallow adit, is improved since my last, and yields 10 or 15 cwt. of ore per fathom. The lode in the stops in the bottom of the shallow adit, west of Morgan's winze, will yield about 15 cwt. of ore per fathom; ditto, east of Morgan's winze, 6 or 8 cwt. of ore per fm. The erection of our machinery is completed, and on Saturday we set it to work for mere trial, and it appears to be quite master of its work, and in the course of a few days we shall be ready to work at full speed. The incline, and a few other trifles attached to the same, not being quite finished, I have contracted with Mr. J. Humphreys, builder, of Aberystwith, to connect the Plynlimon stables into four convenient cottages for our mines, also a four-roomed dwelling-house adjoining the hotel, according to the plan and specification, and to provide all the materials of every description for the sum of 140*1/2*, and to finish the whole in three months.

HAWKMOOR.—Capt. John Seymour having been requested to inspect this mine, has forwarded us the following report:—My first object was to survey the mineral stuff at surface, where I saw some rich piles of copper ore; my next was to descend to the bottom of the shaft, which is only 30 fathoms deep; in the 30 fm. level of this level I was much pleased to find that your prospects are so good; this level is driven from the shaft-shaft from 3 to 4 fms.; the lode here is very large, and rich in copper—the leader, or ore part, is about 18 in. wide, producing, I think, from 3 to 4 tons of rich ore per fm. in height and length, and promising an improvement; the other parts of the lode are composed of peat, spar, and mudiic, with a large quantity of can, the lode altogether is about 4 ft. wide. I also examined the lode in this end of the shaft, and found it to be a good lode for the greater part of the last sink from the 30 to the 30 fm. level. I could not get in to see the east in the 30, the water being in, but could see some parts of the lode, which appeared to be of a promising character; however, I saw sufficient in the level above to warrant that if there be not a good coarse of copper east in the 30 in every little way down, there must be a good lode met with there being a pitch working in the bottom of the 20, on a good coarse of ore. A large pile of tributes' ore was not seen for many years, and the lode is rich in copper and mudiic, in these bottoms. From what I saw of the bottom of the 20, both east and west of the shaft, and the lode in the 20 ends, I scrupled not to say that as soon as you can extend your levels east and west in the 30, sufficient to admit of stopping the tanks over that, you may begin to pay dividends; and I would say that I have not for some time been in a mind that at so shallow a depth promises better to pay the shareholders for their outlay than the Hawkmoor, but there must be a little perseverance. Your shaft ought to be sunk 10 fms. deeper as soon as possible, as the 20 and 30 ends ought to be in course of driving, with six men in each.

HEIGNSTON DOWN CONSOLS.—The lode in the 35 fm. level, east of the cross-cut, is worth 4 tons or ore per fm.; the winze below this level is producing some saving work for copper ore; the cross-cut south, in this level, is without alteration. The 45 fm. level, east of Victor's winze, produces some saving work for copper ore; the cross-cut south, in this level, is suspended for the present. Hitchin's shaft, sinking below the 20 fm. level, progresses satisfactorily, the lode in which is very kindly producing occasional stones of ore.

HENNOCK.—We have very nearly completed the plat in the 10 fm. level, and have commenced driving north on the course of the lode. The

fm.; the stops in the back of this level are much as usual. At Trelawny's the cross-cut in the 92 fm. level is driven towards the lode 6 fms. In the 89 fm. north the lode is 2 ft. wide, worth 8d. per fm.; in the same level south the lode is 2 ft. wide, worth 8d. per fm. In the 79 fm. north the lode is 2 ft. wide, worth 8d. per fm.; the stops about this shaft are looking fair. At the north mine, in the 68 fm. north of Trelawny, the lode is 1 ft. wide, worth 4d. per fm. In the rise in the back of the 68 fm. the lode is 2 ft. wide, worth 6d. per fm. We hope to communicate this rise with the 60, south of Smith's, in the course of a week or so, when we shall be in a position to take away some paying ground. In the 49 fm. north of Smith's, the lode appears to be coming more settled, but still poor. The stops in this part of the mine are not very productive.

TRELEIGH CONSOLS.—On Christoe lode, in the 100 fathom level, west of Garden's, the lode is 20 in. wide, with stones of ore. In the 90 fm. level, west of ditto, the lode is 2 ft. wide, worth 9d. per fm. In the winze below the 80 fm. level, on the north part, the lode is 20 in. wide, worth 10d. per fm. In the 70 fm. level, west of Garden's, the lode is 2 ft. wide, worth 16d. per fm. In the stops above the 70 fm. level, east of Steven's winze, the lode is 2 ft. wide, worth 15d. per fm. In the stops west of ditto, the lode is 1 ft. wide, worth 20d. per fm. In the 60 fm. level, east of Christoe lode, the lode is 20 in. wide, worth 5d. per fm. The 50 cross-cut, north of the engine-shaft, is driving south to cut Parent lode. The 40 cross-cut, south of the engine-shaft, is driving south to cut the middle lode. In the rise above the 40, east of engine-shaft, the lode is 18 in. wide, not much ore. In the adit, east of Nicholson's, on middle lode, the lode is 15 in. wide, with good stones of ore.

TRESCOLL.—The lodes, since my last week's report, east in the bottom level, are greatly improved. The B lode No. 2, and B lode south and north, are nearly come together in the east; and I think, when they form a junction, they will make one champion lode, and a very rich one. We have taken down the lode this week in the side of this level, and found it good work. We are driving on the south B lode west of cross-course, and have a leader of tin in it 4 in. wide, nearly solid tin. Our back, west of cross-course, in the bottom level, has got a fine course of tin in it. Altogether the mine is improving.

TREVILLE (SILVER-LEAD).—Since my last report, the caunter has been driven 3 fms., and we find it more settled every fathom we extend on it; its character is precisely the same as before, and rather increased in size, being now more than 3 ft. wide. There cannot be a doubt but at the junction of this and the main lode in depth, we shall have a paying mine. The wheel-pit is finished, and the axle on the mine; I hope by Friday to have it in its place. The last is also nearly completed, and I trust that in 10 days or a fortnight the wheel will be at work.

WEST WHEAL JEWEL.—The 85 fathom level, west of Williams's cross-course, on Wheal Jewel lode, is producing stones of ore. The lode in Trewek's winze, in the 70 fm. level, west of ditto cross-course, on the same lode, is worth 4d. per fm. The lode in Carkack's winze, west of ditto, has not been taken down in the past week—when last reported it was worth 15d. per fm. The winze in the 57 fm. level, west of ditto cross-course, on the same lode, is unproductive. The lode in the 57 fm. level, east of Hodges's cross-course, on Trelcarne tin lode, is worth 25d. per fm. The shallow adit level, west of ditto shaft, on the same lode, is unproductive. The 12 fm. level, west of ditto shaft, on the same lode, is unproductive; the stops in the back of the 12 fm. level, west of Pryor's winze, on the same lode, is worth 16d. per fm.; the stops in the bottom of the same level, on the same lode, east of ditto shaft, are worth 27d. per fm.; the stops in the bottom of the same level, on the same lode, west of ditto winze, are worth 25d. per fm. The stops are working on tribute.

WHEAL CREBOR.—At Cock's shaft the water is in fork; this morning I went underground, and found that the 24 fm. level was driven on the south lode about 10 fms. by the old company. I think this lode is distinct from any of the lodes in the old mine; the present and I consider it to be a promising one, the lode appears to be fast improving, both in size and character—small branches of rich yellow colour are now dispersed through the lode; and I have no doubt that, in driving on this side, no bad division will be the result. I intend to put two men to clear the piles of stuff left in this level to-night; and to-morrow night to have some of the lode broken, and on Monday put a full party of men there to drive. The 12 fm. level, on the south lode, I consider to be kindly. A. M. Dean will be down shortly to inspect, I do not intend to do anything in this end more than to take down the lode, as everything is so corroded, that, before it could be properly inspected, it would be necessary to work a few days; this part of the mine I consider worthy of our attention. Gill shaft is now timbered, cased, and divided to the 30 fm. level, and the footway completed. To-morrow, or Friday, the plats will be finished; the following day, or Monday, we shall commence hauling and clearing the 20 and 30 fm. levels. I have not yet let the tribute pitches, as I thought it advisable to stop before the shafts are put in order to draw the staff. Next week, I hope to give you more satisfaction as to the state of things at Gill and Rundale shafts; underground, everything of timber kind in the shafts was so decayed, that I was obliged to put all new. Once done, it will last for many years; this is nearly completed, and shortly our operations will be confined to exploring the lode. Rundale shaft is nearly completed; it is all new timbered, and a good firm shaft to the 40 fm. level. You shall hear from me again in a few days. I am not in a position to fix the time the mine will be in a state to be inspected, before I have had some time cleared.

WHEAL GOLDEN CONSOLS.—At the engine-shaft, in the 70 fm. level, north of the cross-cut, the ground is good; the lode has improved both in quality and size since last reported on. In the 70 fm. level south-west the ground is improved, with more ore. At Thomas's shaft, sinking under the 60 fathom level, the lode is larger and better for ore, with good ground. In Rickless's winze, sinking under the 60 fm. level, the ground is improved; the lode is small at present, with indications of improvement; Bellhouse's winze, sinking under the 60 fm. level, is communicated with the rise in the back of the 70 fm. level, which has given us sufficient ore to stop the back north and south, which we are doing, in order to raise as much ore as possible. We have met with a lode, 8 in. big, in this rising winze, about 6 fms. under the 60 fm. level; it is underlaying about 3 ft. per fm., and very good for ore. This is what made the lode so productive in the 70 fm. level, and it appears at present that it has not been seen in any of the upper levels; it will take a cross-cut 3 fms. to cut it in the 60 fm. level, according to its present underlay. After we have opened on it a little further, you shall be informed of the result.

WHEAL RUSSELL.—The cross-cut in the 26 fm. level, on the north lode, is still in hard capes, with muntic and spots of copper ore. The men are getting on well with the sinking of the north engine-shaft; it is now down below the 25 fm. level between 7 and 8 fms. We have not completed the clearing of the 16 fm. level east, the run being greater than was calculated on. In the stamp-winze, below the 26 fm. level, the men have been employed the last three days in taking down the south side of the winze against the slide, where they have broken some good stones of copper ore from the slide, which looks well for the lode on the opposite side. The pitch in the back of the 26 fm. level is just the same as when last reported on.

WHEAL VINCENT.—We have discovered the junction of the south and middle lode, and are now sinking a shaft on them. We are also getting on with the cross-cutting on both the lodes to the east of the engine-shaft on the hill in whole ground; these lodes are looking well on the backs. Both the stamps are working day and night.

FOREIGN MINES.

COPIAPO MINES.—Mining report for March, dated Copiapo April 27:—

COPPER MINES—CHICO.—In the 30 fm. level, east of Harman's shaft, the lode is still large—say 3 ft. wide, and producing excellent ore. The 20 fm. level, east of Harman's shaft, is looking pretty well; the lode is 15 in. wide, with ore of superior quality. In the winze sinking below the 30 fm. level, to the west of the shaft, we have a kindly lode, and it is producing ore of first-class quality. The stops in the back of both the 20 and 30 fm. levels still continue to produce ore of good quality. Viewing the whole of our operations here, they are looking much the same as for some months past.

SAN PEDRO.—In the 12 fm. level west the lode is still large, 3 ft. wide, but it will not give so much ore per fm. as when last reported on, being mixed up with quartz; with this composition, however, I am not at all dis pleased, for the lode is sure to make rich again in a little time; in fact, it is giving some good ore now. In the 12 fm. level north, for the present, we have suspended operations, and have put the men to stop the bottom of the level, where the lode is producing a fair quantity of very good ore. In driving the adit level on the manto, towards the south lode, the ground is rather hard, still the manto is now 2 ft. wide, and is producing fine stones of ore; this I consider to be a first-rate speculation.

LA COMPAÑIA.—During the present month we have confined our operations to the sinking of the shaft on the south lode, with the sinking of a chifflon, or winze, on the same. In the shaft the lode is 3 ft. wide, and giving ore of superior quality, yet it is not so concentrated as we could wish, and as we believe it will be in depth.

LA REYNA.—Here, during the present, we have continued our sinking in the different shafts. In No. 1 the lode has been dislodged by a manto passing through it, but is now again forming itself, and giving some good ore. In No. 2 shaft the lode is from 2 to 3 ft. wide, and of a beautiful character, and producing ore of very superior quality. In No. 3 shaft we have at present a large lode, 2 ft. of which is very rich ore; with this shaft, as well as the others, I am not a little pleased, having just now got through a large bed of gossan.—Produce for March—Chico..... 34 tons.

” San Pedro 20 ”
” La Compania 10 ”
” La Reyna 10 ”

Total 74 ”

The Cubo, 500 tons, arrived at Copiapo on the 12th April, to load a cargo of copper ore, and would be dispatched as soon as possible.

TRES PUNTAS, April 20.—*The New Road.*—Agreeably with your request, I accompanied Mr. Grellet to the port of Flaminco, and now beg to hand you my report on the same:—I consider the distance from here to the port to be about 24 leagues, over a pretty even plain. This can be made an excellent road by cleaning it in places—say, for about one-third of the whole distance, or 8 leagues, and which may be effected for comparatively little expense, when the length of the road is considered. I think \$20000 would complete it. The port, or bay, of Flaminco is beautifully situated, and is well sheltered from the prevailing winds of the coast. It has also, as I have been informed, excellent anchorage, with good landing ground; in fact, it is the best natural port that I have ever seen. And now I would say something as regards the mines, which are from 6 to 7 leagues from the port, on the direct road to Tres Puntas. They have formerly been worked, but not to any considerable extent; several shafts, or pits, have been sunk a few fathoms, from the whole of which ore have been broken, and are now lying at the surface in large piles—I think, including both mines, over 150 tons. These are, however, in their present state, not good enough for shipment, and will, therefore, have to be repacked before they can be shipped. Who these ores belong to I cannot tell—probably the former owners of the mines, who will not doubt dispose of them to you on reasonable terms. I will now speak more particularly of the prospects of these mines. The lode is large, varying from 3 to 18 in. wide, with scarcely any underlay, and composed of copper gossan, with a large proportion of green copper ore—samples of which I have sent you, and per centage you know, no doubt, before this. Now, looking at a lode of the above description, embedded in a beautiful stratum of sand, and with granite adjoining, I think cannot fail to become a grand and profitable undertaking, and more particularly so, from its proximity to the port, at which place a smelting establishment may be erected, and the low quality ore be reduced to a good per centage, for you must suppose that, from such a large lode as the above, there will be a great quantity not fit for shipment in its present state. I would further observe, that there is an excellent watering place, giving a full supply of water, both for the mines and the road, within 14 leagues of the mines, and wood for fuel to be had in abundance, with pasture for the animals for some part of the year; other watering places on the road may be made for a trifling expense. In conclusion, allow me to say, that this is an undertaking that should not for a moment be lost sight of.

SILVER MINES—ALFIN HALLADA.—Our prospects here, I am happy to inform you, are very good; I think the mine has never looked so well as at the present moment. During the past month we have taken down the lode, which has given about 20 fms. of 90 tons of ore, of I think, about 200 mares per cajon (about 20d. per ton). I will now give you the present state of the different lodes—viz.: In the 5 fm. level south the lode is 1 ft. wide, and giving ore of 100 mares per cajon. In the 15 fm. level the lode continues to give ore of fair quality. In the 20 fm. level the lode is large, 2 ft. wide; this now has a beautiful appearance, and has considerably improved since my last—it is now

yielding ore of from 250 to 300 mares per cajon. In the pique, or winze, below this level the lode looks well; now, when you look at this, a lode 2 ft. wide, giving an average quality ore over 200 mares per cajon, and this in the bottom level. I need not, I think, use very strong argument to prove to your satisfaction that the mine never looked so well; and more especially when I say that the lode to the north still holds good. My anticipations of this mine are very high, as well as the mineral generally, for this mine is the key to all the rest, being the deepest, and having the same strata of ground.

SAN JOSE DEL CARMEN.—In this mine we have no alteration, the work being confined to two lodes; however, my opinion is not altered regarding this. I may say, most extraordinary mine, and it only requires time and perseverance to bring out its resources.

MEACEDORES.—I notified to you in my last that we had commenced a new shaft; this is now sunk about 5 fms., in which the lode is 1 ft. wide, and giving beautiful plomos; such a pretty lode I have seldom, if ever seen; we are saving the whole of the lode, and I expect it will give a fair ley, a stone of which I have sent you to be assayed. In the 25 fm. level, driving towards the shaft, the lode is 1 ft. wide, and has the same appearance as the lode in the shaft. In each of the labores the lode is producing a little silver, but not enough to pay for returning, with the present heavy rates of freight; we are, however, daily expecting it to be better, and I think we have a good foundation for these hopes, as it is a large lode, continually giving silver, with a beautiful channel of ground, and over this several of cross-branches, which must ultimately fall in with the main lode.

CARMEN ALTO AND PLOMIA.—In this mine we are still driving our cross-cut both east and west, but are not progressing as fast as we could wish, owing to the hardness of the ground. In the chifflon, which is down 8 fms., the lode is small; our object, however, is to get down, when we hope to find something good.

SANTA ANA.—This mine still holds out fair prospects, and in the present month the lode has improved, both in size and appearance in each of the labores; and I again say it is wanting but a cross branch to give us a rich mine.

COLORADA.—We have nothing new here to report upon. The lode in the 20 fm. level north still continues to yield a little silver, mixed with lead. We are still sinking in the chifflon in a southerly direction, where the lode is 3 ft. wide, with a beautiful soft stratum of ground; on the east and west lode we are also sinking, the lode being 2 ft. wide—our expectations are high about the intersection of these two champion lodes.

GOLD MINES—DESCARRIDORA DE ORO.—During the past month we have confined our operations to the sinking in the bottom of the mine, and the driving of the 10 fm. level. In each of these places we have had a large kindly lode; and, although giving a little gold, yet will not pay to carry to the city for amalgamation; however, we hope in the ensuing month to get something better.

SEGUNDA ESPERANZA.—In the present month we have continued our sinking on the silver lode, and although it maintains its size, and is composed of beautiful quartz and clay, yet is poor. On the gold lode we have done very little, owing to one of our English men being sick.

SANTO DOMINGO.—Here we have a lode 1 foot wide, composed of iron, gossan, and quartz, and a more kindly lode for gold I have seldom seen; we are both driving and sinking, and in each labor the lode has the same appearance.

In conclusion, allow me to call your attention to two or three things as regards this, I think, important mineral. First, to the Al-Fin Hallada, where in the 20 fm. level the lode is not only large but rich, and, as I have before observed, this mine is the key to the mineral, for it is the deepest—now, this to a stranger would appear from my report to be a paradox, from my saying the 20 fm. level is the deepest, when I have stated that we are driving a 25 fm. level in the Merceditas. I would, however, put to this right, say that the Al Fin Hallada is on a plain, and that the Merceditas is on a hill, at least 500 ft. above. In the second place, as regards the Merceditas, in the shaft, as has been already observed, the lode is producing silver: now, look at this, with the prospect of the intersection which we are sure to have. I feel no hesitation in saying as a miner, that I have seldom or ever seen such indications as.

IMPERIAL BRAZILIAN MINING ASSOCIATION.

Bananal, April 3.—The Captains Tregoning shall have every support and assistance from me to carry out their plans: they do not intend taking advantage of the open cutting, but have commenced their tunnel. I am sorry to say that our different works have been considerably impeded by the Easter holidays; and, in fact, when they will end I do not know. All the Brazilians left on Thursday evening, and not one of them has yet returned to work. This is provoking, but we have no remedy against such an inconvenience. The Bananal Mine, I am sorry to say, although now and then giving promising samples, is not at this moment very productive. We continue to prosecute the different points mentioned in the captains' report, but, with the exception of the ground below the 14 fm. level, on the principal veins, very little can be expected, as the backs about that level, and about Gibson's shaft are nearly exhausted. Our driving north of Goldsmith's is tolerably rapid, and I still hope that something will be met with in this large tract of virgin ground. I have often mentioned to you, that our great and principal object is to get down to the 24 fm. level, so as to make backs; and I beg to assure you, that every means that can possibly facilitate this work has been used, and is still using, to gain this point. I have contracted for the thorough repair of Walker's wheel for 300 mares—that is, to put all new arms, rings, backings, and buckets—to be commenced as soon as Goldsmith's stamp is completed and put to work. These repairs will probably take about six weeks from this date. We shall then have 63 stamp heads in excellent working condition—viz.: Great Western, 25; Goldsmith's, 20; Walker's, 18; which, together with 15 the contractors intend putting up, will make 78 heads, ready to work at the expiration of the four months allowed for their preparatory works. The Captains Tregoning have not been able to keep the stamps at Gongo fully at work, but intend doing so in future, by employing a greater number of free labourers.

P.S.—Since writing the foregoing, between two and three boxes of work for the washing house have been obtained from the new stops in the back of the 14 fm. level, east of Gibson's, which yield 1 lb. 0 oz. 15 dwt.

Gold report.—Gongo, from 23d March to 3d April Lbs. 2 5 4 0
Bananal ditto 2 1 8 0-4 6 12 0
Total from 1st Jan.—Gongo Lbs. 38 6 0 0
Bananal 55 9.15 0-9 15 0 15 0

LINARES MINES.

Linares, June 22.—I wrote you last on the 15th inst., which I beg to confirm. Wilson's shaft, sinking under the 31 fm. level, is in hard ground, and the lode at present unproductive. Shaw's shaft is holed to the 31 fm. when, properly squared, the men will be employed to cut a plat, preparatory to driving this level eastward, and sinking to the next level. We have contracted with our carpenter to build the whim, and hope to have it up in three weeks. This shaft has communicated with the level 3 fms. behind the present end. We have put four men to drive a cross-cut from the 31 fm. level north, in order to hole San Juan shaft, which, you are aware, is not at present sinking on the lode. Our tribute pitches continue productive, and we have now several piles of excellent ore from the tributaries on the floors, preparing for dispatch to Seville, or elsewhere.

Stock of Ore Dressed.

June 15.—To stock, as per account furnished Tons 34
” 22.—Weighed in this week 12-46
Ore at Seville for shipment 116
Total 162

NATIONAL BRAZILIAN MINING ASSOCIATION.

Cocais Mine, April 2.—On the 26th of March a party of negroes were removed from Hartley's western slope to excavate on the layers northerly from Hamilton's upper one, as advised in the last report, from which point a larger quantity of ore than usual has been obtained; but the intervention of the Easter holidays has made a considerable difference in the quantity of work performed, to that which otherwise would have been done.

Cocais produce, from 19th to 27th March Mts. 2 0 6 18
Cocais from 24th March to 4th April 4 0 0 17
Total Mts. 6 0 6 35

CALLINGTON MINES COMPANY.

The quarterly general meeting of proprietors was held at the offices, Salvador House, Bishopsgate-street, on Wednesday last, the 3d inst.

RICHARD HODGSON, Esq., in the chair.

The SECRETARY having read the notice convening the meeting, said he was happy to state that a far greater number of shares had been signed for than could have been expected, considering the short notice which had been given to the public; had the meeting been deferred another week, every one, or even double the number, might have been applied for. Many of his friends were in the country, and would not be in town for another week, but he should subscribe for 400 shares for them in their

be offered for sale to the adventurers to purchase by tenders, to be opened at a meeting to be held on 11th inst., at which meeting a proposition for raising fresh capital, by a further issue of shares, will be considered, as also the propriety of clearing up the 63 fms. engine-shaft, and driving a cross-cut at that level to cut the lodes now working on, and extend the present levels into the Duchy ground east and west.—A call of 25s. per share was made payable in a month.—The following report, from W. H. Collom (the purser), was read:—

June 27.—In presenting you with the report of this mine since the last meeting, the deep or 50 fms. adit level has been driven on the course of the lode east 25 fms. The character of the lode, for the last 50 fms., has presented much the same appearance, being large, and containing a quantity of muriatic, with black and yellow copper ore. The Ward lead lode has not been reached in this level. In the cross-cut south, the lode driven on in the deep adit has been intersected 12 fms. under the adit, and is found to be 5 fms. wide, with good stones of ore in it, and muriatic. To the south of this lode is a lode with a north underlode, which will, according to the present underlode of the two lodes, unite with the first-named lode at a depth of about 40 fms. from surface, or 23 fms. below the present workings; to reach their point of junction is a matter of great importance, and I fully expect to meet with a productive lode, and that the muriatic seen in the shallower levels will at that depth give place to copper ore. Between these two lodes is a middle one, which will also unite with the main lode. Besides sinking the engine-shaft, and continuing the 12 fms. level east, I should also recommend driving the deep adit east, which level will be serviceable for ventilating the mine, besides making discoveries by driving on the lode, and particularly cutting the Ward lead lode. As a sale can be obtained for any quantity of the muriatic ore, we have picked out 180 tons, which are ready for shipment, and have been sold to the Patent Alkali Company, and we have many hundred tons of these ores already raised. In conclusion, I beg to state it is my unshaken opinion that these mines will yield large quantities of ore, and will amply repay the shareholders, if the workings are properly carried out. All the pitwork and machinery on the mine is in excellent working order.

FOWEY CONSOLS MINING COMPANY.

At a general meeting of adventurers, held at the mine on 18th June, the accounts were examined and passed, showing—Copper ores sold, 13,943. 13s. 7d.; sandries, 282. 16s. 7d.—13,972. 10s. 2d.; labour cost and merchants' bills for Jan., 30,080. 15s. 4d.; ditto Feb., 31,521. 1s. 1d.; ditto March, 32,082. 15s. 4d.; ditto April, 32,882. 2s. 5d.; leaving profit, 1242. 6s.; to which add balance in hand, 6496. 2s. 77,381. 6s. 2d.; from which deduct dividend, 30s. per share (741), leaves to next account, 6997. 6s. 2d.—Resolutions were unanimously passed to the effect, that the mine having become so deep and hot as to be highly injurious to the constitutions of the miners to have to climb up by ladders, it was considered imperative that they should be drawn up after their day's work was finished; and as Pedlar's shaft could be made available for a man engine to a depth of 280 fms. from surface, it was determined, for the sake of humanity, to erect such a machine, at a cost of 2160., provided the lords generally will allow out of their future dues 5 per cent. per annum on 2000. towards the outlay. This is the more liberal, as, during the past five years, only 22 per share dividend has been declared; while the outlay has amounted to 204,812. 16s. 1d.; and the several lords have been paid 8125. 16s. 9d. We should hope to this exceedingly moderate request, which is most important to their own, as well as every interest, there will not be a dissentient.

LLWYNMALEES MINING COMPANY.

At the two-monthly meeting of adventurers, held at the offices, on Tuesday, the 2d inst., the accounts were submitted, showing—after payment of all liabilities, including May cost, engine, engine-house, &c.—a balance in favour of the mine of 4000. The boiler at last having arrived, Mr. Green, the engineer, has promised to have the engine at work in three weeks; the water being now up to the 8 fms. level; and on account of the drought, the wheel having ceased working, unless favoured with heavy rain, the mine will not be in working condition till after the engine is up. A new crusher was ordered, the present one not being of sufficient power.

SOUTH WHEAL FRANCES MINING COMPANY.

The usual two-monthly meeting of adventurers was held on the 1st instant, when a statement of accounts was presented, showing—Balance in hand to the end of March, 1190. 1s. 2d.; ore sold, April 4, 1829. 7s. 2d.; ditto, May 2, 1497. 16s. 7d.; tin ore, May 29, 710. 17s. 8d.; property tax on dues, 71. 17s. 5d. = 4045. 18s. 5d.—Labour cost for April and May, 1296. 10s.; merchants' bills, 636. 5s. 4d.; dues, rates, &c., 319. 11s. 8d.—showing balance of profit, 1798. 11s. 5d.—The accounts having been examined were passed, and a dividend of 15s. per share declared.

WHEEL BLENCOWE MINING COMPANY.

At a general meeting of shareholders, held at the mine, on Thursday, 27th June, the statement of accounts was presented, showing—Balance due to purser, at last meeting, 137. 0s. 11d.; mine cast for Feb., 57. 13s. 2d.; March, 277. 6s. 3d.; April, 24. 9s. 3d.; merchants' and other bills, 297. 18s. 10d. = 2762. 18s. 5d.—By sale of tin (less dues), 80. 7s. 5d.; call made, 3d March, 110. leaving balance now due to purser, 85. 16s.—The accounts were passed, and a call of 10s. per share made.

The following report, from Capt. John Dale, was read to the meeting:—

Since the last meeting, our operations have been almost wholly confined to the driving of the 20 fms. level, to cut the east and west lodes; but our progress has been much retarded in consequence of a hard channel of ground which we had to pass through. I am now, however, enabled to add that the ground is much more favourable; and, if what we have still to drive through is equally favourable, we hope to intersect the most southerly of the east and west lodes in about six weeks. We have the north and south lodes in the 20 fms. level; and it is value to them to be about what it has hitherto averaged, which considerably strengthens our hope with respect to the east and west lodes.

MINING COMPANY OF IRELAND.

The usual half-yearly meeting of proprietors took place at the offices, in Dublin, on Thursday last. The report of the directors presented congratulated the proprietary upon the improved prosperity of the company, as shown in the particulars given of each mine. The report thus concluded:—“Your board would express its hope and expectation that the improvement in your affairs, noticed for some time past, will prove continuous, and lead to an early return of the prosperity which admitted of the large dividends heretofore realised by the company.”—The report was adopted.—[We shall give the report in detail in our next Number.]

CARN BREA MINES (near Redruth).—Divided into 1000 shares, upon which 15s. each was called, making the total outlay 15,000. From 1834 to 1849 inclusive, a period of sixteen years, the large sum of 187,500. has been paid in dividends to the adventurers, being about 1250 per cent. upon the sum invested, besides the cost of the permanent plant, which is of great value. These mines are still very productive, the sales of ore in the past quarter having amounted to 2380 tons, which realised 14,055. 17s. 6d.

WEST CARADON COPPER MINE (St. Cleer, near Liskeard).—In 256 shares, 20/- paid up. Conducted on the Cost-book Principle. West Caradon is in extent 370 fms. on the course of the lodes, and about 420 fms. north and south, and consists of two sets, called Downhill and Menadue; held on leases for 21 years from 1840, at 1-15 dues; the lords being Mrs. Fooks and Mr. F. Hendra. The mine commenced working in 1840, and first made returns in 1841; from which period to the end of October, 1848, the ores sold realised 167,210. 9s. 2d.; the outlay during the same period was 137,828. 7s. 11d.—viz., 89,205. 10s. 2d. for labour, 48,802. 17s. 9d. for materials, leaving a profit of 33,344. to be divided amongst the shareholders. In 1849 the profits paid to the shareholders amounted to 3840., and to the end of June this year 1920. West Caradon, was the second mine opened in the Caradon district; South Caradon, to the east of it, having been discovered a few months previous. The two mines are situated on the extreme edges of two hills, a deep valley running between them, and on South Caradon proving remarkably rich; the sett of West Caradon was obtained by other parties for a trifling sum, and has realised to them the large profits enumerated above. The mine is nearly 200 fms. deep, has eight lodes, employs 500 persons, and the machinery consists of four steam-engines.

BISHOPSTONE MINES (near Swanscombe).—The first sampling at this mine took place on Tuesday. Nearly 40 tons of rich lead ore, containing silver, will be immediately offered for sale, and it is expected will realise a good price.

SOUTH PLAICE WOOD.—A change of local management has recently taken place here, in the person of an agent from Wheal Seton Mine, who has had considerable experience, and his opinion of the mine is considered more favourable than his predecessor's.

WHEAL TREPUS.—It is expected that the engine will be put to work here on Saturday morning,—and the lowest level being but 15 fms. from surface, the water is expected to be in fork by Monday evening.

MINING APPOINTMENTS DURING JULY.

6. Pay-day at Par Consols, West Jewel, Dolcoath, Stray Park, and Devon Consols.
7. North Roscaron account on the mine. Par Consols sampling.
8. Consols, United, and other mines sampling.
9. Ticketing at Redruth; Camborne and other mines.
10. North Pool setting. Pay at West Caradon and Gornamena.
11. Pay at Par Consols.
12. Fowey Consols sampling.
13. North Pool and other mines sampling. Great Consols account on the mine.
14. Ticketing at Truro; Devon Consols and other mines.
15. United Mines account on the mine. Badnick pay. Levant tin-work pay.
16. Setting and pay at Fowey Consols. Pay at Wheal Seton, Trevikey, Great Consols, United, West Buller, Comfort, Agar.
17. Trevikey and Barrier account. Par Consols sampling.
18. East Crofty account on the mine.
19. Carn Brea and other mines sampling.
20. Ticketing at Truro; Consols, United, and other mines.
21. North Pool pay. East Crofty setting.

HULL, JULY 4.—The railway share market has been less buoyant, and prices in most instances have given way. For the present, however, the decline seems stayed, and we look for an improvement rather than otherwise in speculative stocks; but buyers for investment seem inclined to wait the result of the meetings now near at hand. English mining shares continue in limited request.

THE SCOTCH PIG-IRON TRADE.

(FROM A CORRESPONDENT.)

It is impossible for any careful reader of your Journal to avoid noticing the great discrepancies which frequently appear in some of the market reports about Scotch pig-iron; and it is a very short time since I called the attention of your subscribers to the Liverpool report of the 11th June, folio 282, respecting the stock, which said—“Although the make is reduced considerably, it is amply sufficient to meet the actual demands, and the Ward lead lode has not been reached in this level. In the cross-cut south, the lode driven on in the deep adit has been intersected 12 fms. under the adit, and is found to be 5 fms. wide, with good stones of ore in it, and muriatic. To the south of this lode is a lode with a north underlode, which will, according to the present underlode of the two lodes, unite with the first-named lode at a depth of about 40 fms. from surface, or 23 fms. below the present workings; to reach their point of junction is a matter of great importance, and I fully expect to meet with a productive lode, and that the muriatic seen in the shallower levels will at that depth give place to copper ore. Between these two lodes is a middle one, which will also unite with the main lode. Besides sinking the engine-shaft, and continuing the 12 fms. level east, I should also recommend driving the deep adit east, which level will be serviceable for ventilating the mine, besides making discoveries by driving on the lode, and particularly cutting the Ward lead lode. As a sale can be obtained for any quantity of the muriatic ore, we have picked out 180 tons, which are ready for shipment, and have been sold to the Patent Alkali Company, and we have many hundred tons of these ores already raised. In conclusion, I beg to state it is my unshaken opinion that these mines will yield large quantities of ore, and will amply repay the shareholders, if the workings are properly carried out. All the pitwork and machinery on the mine is in excellent working order.

At a general meeting of adventurers, held at the mine on 18th June, the accounts were examined and passed, showing—Copper ores sold, 13,943. 13s. 7d.; sandries, 282. 16s. 7d.—13,972. 10s. 2d.; labour cost and merchants' bills for Jan., 30,080. 15s. 4d.; ditto Feb., 31,521. 1s. 1d.; ditto March, 32,082. 15s. 4d.; ditto April, 32,882. 2s. 5d.; leaving profit, 1242. 6s.; to which add balance in hand, 6496. 2s. 77,381. 6s. 2d.; from which deduct dividend, 30s. per share (741), leaves to next account, 6997. 6s. 2d.—Resolutions were unanimously passed to the effect, that the mine having become so deep and hot as to be highly injurious to the constitutions of the miners to have to climb up by ladders, it was considered imperative that they should be drawn up after their day's work was finished; and as Pedlar's shaft could be made available for a man engine to a depth of 280 fms. from surface, it was determined, for the sake of humanity, to erect such a machine, at a cost of 2160., provided the lords generally will allow out of their future dues 5 per cent. per annum on 2000. towards the outlay. This is the more liberal, as, during the past five years, only 22 per share dividend has been declared; while the outlay has amounted to 204,812. 16s. 1d.; and the several lords have been paid 8125. 16s. 9d. We should hope to this exceedingly moderate request, which is most important to their own, as well as every interest, there will not be a dissentient.

LATEST CURRENT PRICES OF METALS.

LONDON, JULY 5, 1850.

ENGLISH IRON. a		per ton.	ENGLISH LEAD. g	
Bar, bolt, &c.	£23 2	6 5-6 10	Old copper	per lb. 8d
Nail rods	6	0-6 10	Yellow Metal Sheathing	8d
Hoops	5	0-7 10	FOREIGN COPPER. f	
Sheets (wings)	7	18 0-8 5	Chili	
Bars, at Cardiff & Newport	12	6 4-12		
Refined metal, Wales	3	5-8 10	ENGLISH LEAD. g	
Do. anthracite	3	10 0	Pig	per ton 18 0-18 5
Do. Wales	3	0-8 15	Sheet	19 0 0
Do. do. forge	3	10-2 15	Pipe	19 10 0
Do. No. 1, Clyd. net cash	2	4 6-2 5	Red lead	19 0 0
Blewitt's Patent Refined Iron	3	10 0	White ditto	25 0 0
for bars, rails, &c., free on board at Newport	3	10 0	Patent shot	30 10 0
			FOREIGN LEAD. h	
Do. do. for tin-plates, boiler plates, &c., ditto	4	10 9	Spanish, in bond	
Stirling's Patent 3 in Glasgow	2	16 0	ENGLISH TIN. i	
Toughened Pigs in Wales	3	5-8 10	Block	per cwt. 3 14 0
Staffordshire bars, at the works	6	0	Bar	3 15 0
Do. do. 4 15-5 0			Refined	4 0 0
Chair			FOREIGN TIN. k	
			Banca, H. C.	3 12-3 13
Swedish	11	12-13 5	Ditto, for Export only	3 12-3 13
COND.	18	0	Straits	3 10-3 11
PSI.			IC Coke	per box 1 7 0-1 7 6
Gourfier			IC Charcoal	12 6-1 13
Archangel			IX ditto	1 18 0
			FOREIGN STEEL. m	
Swedish keg	14	0-14 10	Plates, warehoused	per ton 14 15-15 0
Ditto faggot	15	0	Ditto, to arrive	
			ENGLISH COPPER. d	
Sheets, sheathing, & bolts, p. lb.	0 0 9		English sheet	per ton 21 0 0
Toughake	per ton 84 0 0		QUICKSILVER. o	per lb. 4s.
			TERMS.—a, 6 months, or 2d per cent. dis. b, ditto; c, ditto; d, 6 months, or 3 per cent. dis. e, 6 months, or 2d per cent. dis. f, ditto; g, ditto; h, ditto; i, ditto; k, net cash; l, 6 months, or 3 p. c. dis. m, net cash; n, 3 months, or 1/2 p. c. dis. o, ditto; p, 14 dis. q, Cold-blast, free on board in Wales.	

GLASGOW, JULY 4.—The ironmasters having resolved to keep out of blast one-third of the furnaces for two months longer, from the 11th inst., there was more disposition to day on the part of buyers to do business. The market closed firm at 45s. 6d. cash for mixed Nos., free on board here.

THE IRON TRADE.—In last Saturday's Journal we noticed the preliminary meeting of ironmasters held on the previous day, at Handsworth, and at which the trade was stated to be “deplorable.” The *Wolverhampton Chronicle* of Wednesday has the following remarks:—“Some makers (we necessarily abstain from giving names) were represented as being almost totally without orders, others as having only a very limited amount, while, in other instances, forges and mills were represented to be tolerably well employed. The latter class was the exception, and the exception was generally considered to arise from adventitious circumstances, rather than from the general state of the trade. A conflict of opinion is represented to be prevailing, as to whether the price of iron should recede or otherwise. It was resolved, however, to adhere to present prices, but under circumstances leaving the decision more than usually open to revision at quarter-day. As is usual in such a state of trade, antagonistic opinions are openly spoken of as being the result of individual position; but the general determination of the meeting may be taken to be adherence to present prices. Concession in price, it is plain, may go on until all parties are making at a loss. Little or no gain can at present be obtained; but no surer path to general ruin can be found than to manufacture with an acknowledged want of profit. The more extensive the orders executed at unremunerating prices, the more extensive the loss. Cheapness of price must not be taken as a rule for stimulating demand. It is the want of the article, principally, that occasions demand. The determination on quarter-day is looked for with considerable solicitude. To quote prices in the present state of the trade would convey no information, as every bargain is determined by the private opinion of buyer and seller. No rule prevails.”

EXPORTATION OF THE PRECIOUS METALS.—The following are the officials returns of the exports of silver from the port of London for the past week:—Silver bar to St. Petersburg, 603,788 ozs.; coin to ditto, 523,990 ozs.; ditto to Dunkirk, 200,000 ozs.; ditto to Belgium, 29,000; ditto to Boulogne, 2200 ozs.—Total, 1,356,878.

CURRENT PRICE OF GOLD AND SILVER.	

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Current Prices of Stocks, Shares, & Metals.

MINES.—There does not appear to have been more than an average amount of business transacted during the week. We have had inquiries for shares in several mines, but the prices generally were under the quotations; in some instances, however, shares have been done at an advance.

In last week's Journal we gave the list of dividends paid by 32 Cornwall and Devon mines, amounting in the aggregate to 94,303*l.* In this list a few private mines were not included, and several others left out, in order to be corrected. We have not yet obtained particulars of Par Consols, but we republish the list, adding—Wheat Seton, 297*l.*; Great Work, 2380*l.*; Fowey Consols, 74*l.*; Wheal Reeth, 600*l.*; and Trethellan, 600*l.*—making a total in 37 mines of 101,594*l.*

From a clerical error in a statement furnished from the office of the Welsh mines, Goginan was stated to have paid 4500*l.*, and Lisburne, 1500*l.*, whereas it should have been—Lisburne, 4500*l.*, and Goginan, 1500*l.*

Since last week, the following mines have paid further dividends, but which, of course, are not included in the list:—

South Frances	£1860	0	0
North Pool	2500	0	0
Wheal Reeth	600	0	0
Goginan	500	0	0

Inquiries are being made for West Caradon, South Basset, Treviasey and Barrier, Alfred Consols, Tremayne, &c.

At the South Wheal Frances two-monthly meeting for April and May a dividend of 15*s.* per share was declared, carrying to credit of the next account a balance of 1123*l.* 12*s.* 7*d.* The ore sold during that period realised 4038*l.* 1*s.* 5*d.*, giving a profit of 1775*l.* 14*s.* 5*d.* which, added to balance from last account, allowed a dividend of 1860*l.* The mine is represented in a very flourishing position.

At Wheal Reeth account, a dividend of 5*s.* per share was declared.

At the two-monthly account of North Pool, a dividend of 25*s.* per share was declared, carrying to balance of next account, 856*l.* 19*s.* 3*d.* A profit of 2374*l.* was made for March and April.

A dividend of 5*s.* per share has been declared on Goginan from the past two months' profits, payable at the offices of Messrs. John Taylor and Son.

At the Fowey Consols meeting the accounts showed—Ores sold in the four months ending April 30, 13,943*l.* 13*s.* 7*d.*, and a profit of 1242*l.* 6*s.* A dividend of 30*s.* per share was declared, leaving balance of 6997*l.* 6*s.* 2*d.* It was resolved to erect a "man engine," as the mine was getting deep and hot—some observations on which will be found in a leading article.

The mines reported to have improved since our last are South Polgus, South Tamar, Wellington, Bedford United, South Basset, East Cornwall, and Wheal Golden.

At Kit Hill Mine, in clearing up some old workings, a solid branch of tin, from 2 to 4 in. wide, has been discovered in the bottom of the level.

Wheal Bawden gives indications of considerable improvement. A sample of ore was assayed a few days since, giving 65 per cent. for lead, and 225 ozs. to the ton of ore.

At Hennock Mine, a very considerable improvement has taken place in the 10 fm. level, which is reported to be worth 1 ton per fm., and still improving. The reports of Mr. Evan Hopkins and Mr. Adam Murray, jun., who were recently appointed to inspect the mine, are now anxiously looked for. These gentlemen were selected in consequence of a most condemnatory report from a practical agent, who was requested to furnish his opinion at the last general meeting.

The weekly report from Wheal Crebor states that the water in Cock shaft was forked, when it was found that the end of the 24 fm. level, on the south lode, contained small branches of rich yellow ore, and the lode improved in size and character towards the end.

From Herodsfoot Mine 78 tons of silver-lead ores were sold on the 1st, at 12*l.* 5*s.* 6*d.* per ton, amounting to 957*l.* 9*s.*, being one month's raisings.

North Wheal Friendship Mines sold, on the 25th June, to Messrs. Locke, Blackett, and Co., 20 tons of lead ore, at 10*l.* 10*s.* per ton.

From the Callington Mines 45 tons of silver-lead ores were sold on Wednesday, the 3d inst., at 17*l.* 17*s.* 6*d.* per ton, to Thos. Somers, Esq.

At Wheal Blencowe meeting, the accounts for the three months ending April were balanced, showing 85*l.* 16*s.* due to the purser; to discharge which, and for future operations, a call of 10*s.* per share was made. The agent's report states that the operations have been chiefly confined to driving the 20 fm. level, with a view of intersecting the east and west lodes, the more southerly of which is expected to be cut in about six weeks. The north and south lode, on which they are now driving, continues without any important alteration.

At Wheal Calstock meeting, the account was made up to end of April, and the balance found against the adventurers appears to be 547*l.* 4*s.* 9*d.* Three additional sets have been secured, and the mine is to be called Calstock Consols; to effectually develop the whole, additional capital is necessary, and to effect which, the mines are to be divided into 512 shares; and a call of 25*s.* per share was made on 441 shares, and the 71 unappropriated ones to be sold to the shareholders by tender. The agent's report represents the prospects to be of a very encouraging character. A market has been obtained for the mundic, with which the lodes are strongly impregnated: 180 tons are now ready for shipment.

At the usual two-monthly meeting of the Llwyndolcoes shareholders, the accounts showed a balance of about 400*l.* in favour of the company, after paying May costs, the steam-engine, and all other expenses, attending its erection, &c. The engine is expected to be at work in about a fortnight from this date.

At the quarterly meeting of the Callington Mines Company, the statement of accounts showed a balance of 2714*l.* 8*s.* 3*d.* against the mine; whilst there was a balance in favour of Kelly Bray Mine of 297*l.* 5*s.* 6*d.* By a resolution adopted, the accounts of Kelly Bray department, in future, are not to be kept separate from the Callington Mines. We consider the agent's report generally rather more encouraging than that presented at the last meeting: 45 tons of rich silver-lead ore were sold on the same day, realising 17*l.* 17*s.* 6*d.* per ton.

At the annual meeting of the Lewis Mining Company, the directors' and agents' reports represented the mine in a very gratifying position. During the last six months, the mine has made considerable progressive improvements, and the results have been profitable, inasmuch that the balance against the company at the last account has been considerably lessened. In May, 1849, their sales of tin were about 900*l.*; and for the past three months they have averaged 1600*l.* per month. It is calculated that early and continuous dividends will be made.

At the general meeting of Treloewth Consols, the accounts for the quarter ending April were audited, showing an expenditure of 1455*l.* 3*s.* 5*d.*, including the cost for the 60-in. steam-engine and May costs. The agent's report stated that the steam-engine, and other surface requisites, were rapidly progressing towards completion.

At the East Trescoll meeting, the secretary stated that a much greater number of shares had been taken up than he had anticipated—314 only remaining, for which a gentleman present immediately subscribed. Mr. Brand was appointed purser, and instructed to proceed to order the engine and machinery to develop the mine, which holds out great promise, with all possible dispatch. A call of 10*s.* per share was made.

At the half-yearly meeting of the Mining Company of Ireland, held in Dublin, on Thursday, a favourable report was read, congratulating the shareholders on the prospect of an early return of former prosperous times when handsome returns were made. No dividend was declared.

At the meeting of Cameron's Coalbrook Steam-Coal and Swansea and Loughor Railway Company, a large number of proprietors attended, and the meeting was, happily, very unanimous. It appeared to be the general opinion that the property was undoubtedly highly valuable, and that the company had arrived at a point when it only wanted co-operation and unanimity to develop its resources to the benefit of the shareholders. A call of 2*s.* per share was made, payable on 1st Sept., which was responded to unanimously.

At the meeting of West Wheal Friendship, the shareholders resolved on considering the application for 200 shares, relinquished about two years since, on which the holders were unable to continue the calls, a large portion of which have been readily taken up by influential parties, which we are pleased to hear, as the mine well merits further development.

Shares in the following mines have changed hands during the week:—Devon Great Consols, East Wheal Rose, South Basset, West Caradon, Trelawny, East Buller, Pendavies, Bedford United, East Tamar, Herodsfoot, Hennock, Daren, Gustavus, Alfred Consols, Tremayne, Camborne Consols, Trefusis, Tincroft, Wheal Bawden, West Polgoon, Mary Ann, Stray Park, Wheal Langford, Tavy Consols, South Tamar, Wheal Trescoll, Hawkmoor, St. Aubyn and Grylls, Drake Walls, Wheal Franco, Allt-y-Crib, South Frances, Wheal Buller, &c.

In Foreign Mines transactions have taken place in Santiago, St. John del Rey, United Mexican, Barossa Range, Cobre, Imperial Brazilian, Li-

naros, Australian, &c. By recent accounts from South Australia, we learn that the directors of the Burra Burra intended to declare a dividend at the rate of 200 per cent. in March last.

The National Brazilian advices are to the 4th of April, and furnish the returns from Cuiaba from the 19th to 27th March, mks. 2 0 6 18; Cocais from 24th March to 4th April, mks. 4 0 0 17 = 6 0 6 35. The intervention of the Easter holidays had considerably delayed the works.

Linares weekly report presents nothing important. The pitches are represented as continuing productive, and the amount of lead now in store is about 46 tons.

The Imperial Brazilian Mining Association have received letters to the 3d of April. The gold report gives the produce from 23d March to 3d April from the two mines at 4 lbs. 6 ozs. 12 dwt., the total from the 1st January being 94 lbs. 3 ozs. 15 dwt. The manager reports that the operations have been retarded, in consequence of the Easter holidays, and no discovery has been made.

The usual monthly despatches have been received by the Copiapo Mining Company to the 29th April. The mining report for March is of a very flattering character, inasmuch that the Checo, San Pedro, and La Compania Copper Mines, are represented in a very productive position. At La Reyna Copper Mine, the lode in Nos. 2 and 3 shafts are from 2 to 3 ft. wide, producing ore of superior quality. The produce for the month appears to be 74 tons—Checo returning 34 tons, San Pedro 20 tons, and La Compania and La Reyna 10 tons each. The Cuba, of 500 tons, had arrived at Copiapo on the 12th April for freight, and would be despatched as early as possible. The silver mines continue to hold out the most gratifying results, especially the mine Al Fin Hallada, which is producing some excellent work. The gold mines are reported very favourably, and the prospects are highly encouraging.

PRICES OF MINING SHARES.

It having been suggested by many of our readers and valued correspondents that it would be highly desirable to give in our Share List the locality of each Mine, and the mineral produced, we intend commencing to give such information in our next Number, and shall feel obliged to all agents, and others interested, to forward us correct particulars of the parish in which each mine is situated, and whether productive of Copper, Lead, Tin, or other mineral, with the Number of Shares, and the Amount Paid thereon.

BRITISH MINES.

Shares.	Company.	Paid.	Price.	Shares.	Company.	Paid.	Price.
10000	Abergwesyn	9	—	5000	Rock's Mine	43	6 7
1024	Alfred Consols	82	28 30	2048	Bunnaford Coombe Tin	21	5
1248	Allt-y-Crib	5	5 4	9000	South Tamar	21	2 3
1024	Arundell	24	—	128	South Caradon	5	270
1024	Asbury United Mines	91	—	1100	South Dolcoath	6	4 1
1624	Ballaŵsider	9	14	236	St. Friendsh. Wh. Ann	30	28 30
128	Bainon Consols	42	20	256	South Molton	7	12 13
905	Bairnstown	53	8	1024	South Plain Wood	1	5 6
3650	Bawden	4	4 4	300	South Speed	10	20
6000	Beulbury	1	—	256	South Tolgus	16	132 35 40
4000	Bedford	24	44 2	256	South Trelawny	29	5 8
1800	Birch Tor & Vitifer	102	71 8	2000	South Wales Mining Co.	1	—
5000	Black Craig & Craigton	—	5	256	South Wheal Bassett	101	295 300
3000	Blawenow	50	124	124	South Wh. Frances	160	569
5000	Blisland Consols	—	—	256	South Wh. Josiah	2	34 4
1024	Bodmin Consols	3	3	10000	Southern & Western, Irish	24	—
5000	Bodmin Moon Consols	1	3	2000	Spearne Moor	30	40
6000	Bosom	41	10 124	128	Spearne Consols	10	60
1000	Bottallack	182	—	256	St. Aubyn and Grylls	24	71 8
2000	Bottle Hill	2	2	94	St. Ives Consols	—	80
120	Brower	5	24	128	St. Michael Paukivel	5	104
10000	British Iron, New, regis.	12	8	999	St. Minver Consols	1	6
1024	Broadhead	10	10	1000	Stray Park	43	21 2 3
2400	Brym-Arian	2	12 14	1024	Treluback	—	71 9
107	Budnick Consols	524	10 11	2024	Tavistock Consols	—	—
250	Butterdon	1	2 3	687	Tavy Consols	8	3 34
1000	Callington	26	34 2	6000	Tincroft	7	11 12
1000	Camborne Consols	7	3 5	1024	Treluack	—	—
2000	Cameron's Steam Coal	—	—	2000	Trenance	3	—
236	Caradon Mines	234	10	1500	Trenant Lime Quarries	2	3
256	Caradon United	24	5 8	96	Treasvean	10	100
1536	Caradon Vale	2	1 14	120	Trelathian	5	25 30
1000	Carbuna	5	12 15	256	Treliske	12	250
1000	Carn Brea	15	125 140	512	Trevilley Copper	2	34
1000	Carthiwell Consols	—	—	512	Trevilley (Lewannick)	2	71 9
113	Charlestown	220	—	1000	Trelyw	2	24
500	Comblawm	54	44	200	United Mines	50	160
128	Confort	45	80	256	Wellington Mines	25	274
256	Condurrow	20	80	128	West Buller	10	600
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NOTICES TO CORRESPONDENTS.

"We must impress upon our correspondents, the necessity of invariably furnishing us with their names and addresses—not that their communications should, consequently, be noticed, but as an earnest to us of their good faith.

"An old Subscriber" (Bristol).—We greatly regret the inconvenience to which our correspondents (together with numerous others) are put by the recent absurd postal alterations; but which we have reason to think, from the almost universal condemnation expressed, will soon be abrogated. In the meantime, we believe the Journal may be obtained, on the Monday morning, through some local agent—the time of our publication permitting papers being despatched by the mid-day trains on Saturday.

"A Miner" (Manchester).—Read the descriptive paper on "The Cost-book System and the Stannaries," in the Journal of the 27th April last, and obtain our "Glossary of English and Foreign Mining and Smelting Terms," which can be procured through any bookseller.

A correspondent wishes for information respecting the Chesterfield (Virginia) Mining Company. Perhaps some of our readers will oblige by communicating what they may know of the property? Sir W. P. Call, Marten, and Co. were the bankers.

EXPOSITION OF INDUSTRY OF ALL NATIONS FOR 1851.—We have received a long communication from a correspondent, "B. K." on the proposed site of the building contemplated to be erected—want of space compels us to decline the insertion of our correspondent's letter. He proposes, as the most eligible spot, and where free and easy access can readily be obtained—the Copenhill Fields, near Islington. This being in the proximity of the Great Northern line, which runs through a considerable portion of the manufacturing districts; the East and West India Dock Railway, which affords considerable facilities from the river, and the London and North Western, the situation is more central, taking into consideration the accommodation and general convenience to be afforded, than any other of the various sites proposed. The Commissioners have, no doubt, however, decided on retaining, if possible, the Hyde Park site; and whatever advantages may be reaped from our correspondent's suggestions, we are afraid he is too late in the field to render them of any practical benefit, either to himself or the public. His remarks, as to the Jobbing to be feared, are not to the present purpose; although no direct control is placed over the Commissioners, and the several committees, yet all their movements are watched with a jealous eye by the public, and every action is liable to its scrutiny and animadversion; in such case, although some errors of judgment may be committed, there is scarcely any body of men so fool-hardy as to lend themselves to the flagrant abuse anticipated by "B. K."

E. Harries (Gloucester-place).—The general complaint of the insecurity of Westminster Bridge has been universally acknowledged, and it is believed some decisive steps must immediately be taken to remove this evil, with as little obstruction and inconvenience to the public as possible. Various plans of bridges have been proposed, but as yet none have been decided upon. It would seem that the erection of a stone bridge would take considerable time, and would impede the traffic of the river, and could not be commenced before the old structure was demolished. Others have suggested a suspension bridge, similar to Hungerford, but as there is a great traffic over the present bridge, which most probably will increase rather than diminish, however safe the principle may be, the catastrophes which have occurred at Yarmouth, Angiers, &c., render the public mind wary and doubtful of their security. Some time since, one of our correspondents, Mr. Motte, prepared a sketch of an iron bridge, to be built in the Gothic style, which would have been an ornament to the river, and in consonance with the new palace at Westminster. As this would have been one of the grand approaches to this fine building, its similarity of architecture would have greatly improved the general aspect. We need not inform our correspondent that iron bridges are not only more economical, but that they can be erected in a briefer space of time than those of stone.

THE ELECTRIC TELEGRAPH.—Some highly original and very great improvements are in progress in the needle telegraph, by a gentleman altogether unconnected with the present company, the particulars of which we shall soon have an opportunity of laying before our readers.

"W. M." (Greenwich).—The first diamond lens for microscopic purposes was formed by Mr. Pritchard, at the suggestion of Dr. Goring, in 1824, and the first diamond microscope was completed in 1826. The introduction of this brilliant stone for such a purpose is regarded as realising almost the ultimatum of perfection in the construction of the single microscope. Its great advantages arise from its high refractive power and feeble tendency to the dispersion of colour. The hint upon which this optical improvement is founded was originally thrown out by Dr. Brewster, in his *Treatise on New Philosophical Instruments*, page 402. The sapphire lens is almost equal in refractive power and clearness to that formed of the diamond; and this has also been constructed by Mr. Pritchard of various focal lengths, and fitted to the microscope with excellent effect.

"B." (Islington).—The result of the trial in the case *Dakin v. Brown* was, that the defendant declined proceeding further with the action after the first day, agreeing to pay 800/- damages, and all costs.

SALE OF BLACK TIN FROM DRAKE WALLS MINE.—In last week's Journal it was stated that the second parcel produced 37L. 9s.; it should have been, 38L. per ton.

"M." (Regent's-park).—By a notice in another column, it will be seen that Mr. Polkinghorne's "Synopsis of the Cornwall and Swansea Ticketings" has been published.—Copies can be had at our office, price 7s. 6d. each.

"A Reader" (Leeds).—We hope for a favourable result to Mr. Locke's motion, to rescind the alteration. Forward a copy of the petition we inserted last week, for presentation.

"W." (Bolton).—In answer to our correspondent's inquiry respecting the cause "The Electric Telegraph Company v. Chapman," we understand that the plaintiffs have adopted me sure to defer the trial until December next; and we are also informed that similar measures have been taken with regard to the second action brought by the same parties against Brett and Little, and which, as we intimated to our readers in our last number, was to have come on in the Court of Common Pleas on Saturday last.

"A regular Subscriber."—We know of no other means of redress, than for the London shareholders to unite, call a meeting, and appoint a committee to institute legal proceedings against the purser or other parties to whom the money was paid, or are otherwise responsible.

SOUTH WALES COLLIERY STRIKE.—Mr. James Banfield, coal agent of Cardiff, referring to a statement in the *Times*, that "the strike is doing considerable mischief to this port, and that numerous vessels which have put in for cargoes have sailed out empty," says—"The statement, so far as Cardiff is concerned, is entirely erroneous. The Glamorganshire collieries you name are situated in the lower part of the county, and ship all their produce from lower ports; the Monmouthshire entirely through Newport. All the collieries supplying this port are in work; the difficulty is to obtain vessels, there is no want of freight. As such a statement is calculated to mislead shipowners, and masters of vessels, and consumers also, will you be good enough to insert this letter in your columns?"

CARVANNALL MINE.—Mr. Francis Passingham (Truro) informs mine brokers and the public generally, that he is entitled to 14-132 shares in the Carvannall Mine, Cornwall, and that he repudiates the transfer thereof obtained from him by Capt. W. Martin, the principal agent in the mine. And he further gives notice, that he has, through his solicitor, called on the said William Martin to reinstate the shares in his name in the Cost-book of the mine; and that he has also given written notice to the purser of the mine not to accept or enter in the books of the said mine the transfer of any shares standing in the name of the said William Martin. And he further gives notice, that proceedings in Chancery will forthwith be instituted against William Martin, to compel him to restore the said shares as aforesaid, and for an injunction to restrain him from disposing of such shares; and also to restrain the purser from transferring any of the shares now standing in the name of the said William Martin in the Cost-book of the said mine, unless such shares are reinstated in his name as aforesaid.

"A Manchester Reader."—We are obliged for the communication. The Roche Rock Tin Mine is in the parish of Roche, near St. Austell—the offices in Royal Exchange-buildings, London; and the Rocks Mine is the adjoining seat—the offices in Manchester.

The Tungkillo Mine (20,000 acres) is situated about 35 miles south-east of Adelaide, South Australia.

SEWAGE MANURE.—We have received the communication of our respected correspondent, Mr. T. H. Leighton, on the London sewage question, and on which subject a leading article appears in our present Journal; but the question has undergone so much discussion, and so little good appears to us to be likely to arise from its revival in our columns, that we must decline its insertion.

The communication of "A Tributer" (Liskeard) is declined.

"A Subcriber" (Cornhill).—We cannot insert the long statement respecting the recent trial "Knight v. Pace." We consider the affair to have been settled by the verdict of the jury, and we cannot open our columns to a discussion, which can have no beneficial termination. It was remarked by Mr. Sergeant Shee, "that it was very remarkable that Powell Davies, much as he was 'disgusted' with the defendant Kelly, did not object to take the money on the bill from the plaintiffs. If he, who so glibly at the last moment said that the iron merchants, as he first called the defendants, were wine dealers, stated for his own end that Pace recognised his liability in the conversation he detailed about the wine—was to be believed?"

COUNT GRANGE MINING COMPANY.—In the accounts of this company, page 305, in last week's Journal, 6 lines from top, for "140," read "410" shares; 27 lines from top, for "vendor," read "powder" (6s. 18s. 3d.); and 32 lines from top, for "246. 16s. 10d.," read "240. 16s. 10d." and for "346. 16s. 10d." read "340. 16s. 10d."

"* It is particularly requested that all communications may be addressed—

TO THE EDITOR,
Mining Journal Office,
26, FLEET-STREET, LONDON.

And Post-office orders made payable to Wm. Salmon Mansell, as acting for the proprietors.

THE MINING JOURNAL
Railway and Commercial Gazette.

LONDON, JULY 6, 1850.

The MINING JOURNAL is published at about Eleven o'clock on Saturday morning, at the office, 26, Fleet-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other parts of London.

In the truly arduous occupation followed by the Cornish miner, there is no portion of his daily toil which so severely taxes his vital strength, and tries his constitution, as the descending and ascending the deep shafts to his work, particularly the latter. To descend to a depth of from 1000 to 1800 ft. on nearly perpendicular ladders, is sufficiently severe, and the men are even then obliged to rest themselves for a considerable time before they can commence their labour; but day succeeding day, after eight or nine hours' excessive toil, in a heated, moist, and oppressive atmosphere, to ascend to such a height, is a feat which makes inroads on the strength and health of the most robust, and tends materially to shorten the lives

of the mining population. Many years ago, measures were taken in the deep mines of the Hartz, and other parts of Germany, to relieve the men from this addition to their toll, and mackines were constructed at once simple but powerful, which by an oscillating vertical motion of two sets of rods, with steps or platforms at regular distances, enabled the men to ascend or descend with great rapidity, and without the slightest fatigue. The attention of the adventurers in our Cornish mines had long been called to this important and humane subject, but it was not until some eight or ten years since that any steps were taken to test the effect of motive-power, for the transit of the men, over fixed ladders. The proprietors of the Tresavean Mine were at length induced to consent to the erection of a man-engine, which has proved not only highly advantageous as regards the preservation of life, but, by effecting an immense saving of time, enables much more labour to be performed by each man, to the benefit of the adventure.

It is with much pleasure we find that the proprietors of Fowey Consols Mine are about to follow this humane and desirable course. At a meeting, held on the 18th June, it was resolved—"That, as this mine is become so very deep and hot for the miners' working, and thereby very injurious to their constitutions in climbing, after doing a fair day's work, we consider it imperative, in order to continue the working of the mine, that the miners should be drawn up after their day's work is finished." This determination to adopt measures for the preservation of the working miner, more strongly evinces a humane and liberal spirit under present circumstances, inasmuch as, during the past five years, the expenses of the mine have amounted to 204,814/-, and only one dividend of 2/- per share has been paid; while the lords have received no less a sum than 8126/- The only proviso attached to this resolution is, that the latter shall allow out of their future dues 5/- per cent. per annum on 2000/- towards the outlay. To this liberal proposition, we should hope and believe there will not be a dissentient voice; and, when completed, we trust it will be another such convincing proof of the benefits arising from the use of the man-engine, both to miners and adventurers, as will induce other proprietors of deep mines to follow so laudable an example.

On a cursory review of the various institutions in the metropolis for the acquirement of knowledge, and the encouragement of literature and science, it might be considered that our means of mental edification were ample, and that nothing was left to be desired to advance the enlightenment of the age, and to supply that intellectual food for which the very sinews of society—the middle and working classes—so ardently long. Such, however, is really not the case; and, on an impartial scrutiny, we shall find that, with the exception of the Polytechnic Institution (an establishment which may be considered a really national one), we have nothing on a grand scale, forming, as it were, a national theatre of the industrial arts, and where the various sciences may be studied, and the fine arts practised, with facility and success. In the MINING JOURNAL of 23d Feb. last, we made some remarks on a prospectus, then just issued, for the establishment of an institution to complete this desideratum—to erect a building, to be called the ROYAL PANOPTICON OF SCIENCE AND ART; and, although no outward stir has been made during the period which has elapsed, we are happy to find that the company has been in progress; and its success, we trust, is now certain.

When we find the presidency chair filled by the heir to the first dukedom in the kingdom (the Earl of ARUNDEL and SURREY), and the society patronised by the most scientific and influential among the nobility and gentry, we have every reason to believe a foundation will be established on principles of that enlarged, liberal, and enlightened nature as will meet the requirements of the times; and, while the institution will be held up to the world as greatly superior to all others in an extended field of usefulness, an income will be secured, which will amply repay the shareholders for the capital invested. We refer to an advertisement, and some further observations, in our last Number.

The attention of Parliament and the public is now anxiously riveted upon the proceedings of that notable establishment, the COMMISSIONERS OF SEWERS. The last commission were superseded because they did not possess engineering talent—they were tardy in their movements, and they were divided in their counsels regarding the proper course to take as a general system; they, therefore, most honestly and wisely issued an invitation to the engineering talent of the country to volunteer plans and specifications for the effectual drainage and sewerage of the metropolis, promising that the most liberal acknowledgement would be awarded to those plans possessing merit, and that the names of the individuals should be brought forward as their plans deserved. Immediately after this event, they were superseded, but the desired effect was produced by the volunteering of 170 plans and specifications, which fell to the heirship of their successors. These gentlemen were selected for their great engineering talents, some civil, some military, some mining, and so, with Lord EBRINGTON at their head, the public was assured that the City and its dependances would be, *tout suite*, cleansed and remodelled upon the most effective system. Let us now take a hasty glance at their proceedings since the time of their entering office.

The first important act was the appointing, as engineer, the nominees of Mr. STEPHENSON, with a salary of 1500/- per annum. The next great act was the imposition of a rate of 8d. in 1L. They were not long in telling the public that, as they were unpaid, their time must not be demanded too urgently; and, therefore, many of their weekly meetings failed in producing a quorum to transact business. Finding that the publication of the plans which had been advertised for, in common justice, demanded attention, they censured their predecessors for having taken that step, as it now clearly bound them to take some decisive course; they, therefore, appointed a special committee to examine, classify, and select these plans, according to their practical merit. In accomplishing this task the projects were classified into schemes applicable to the present sewerages, and discharging at the Thames, as at present; and other schemes, consisting of stupendous new tunnels, of many miles in length, having their termini far below London; others, again, were for converting the produce into manure. Now, the extraordinary result of this classification was as follows:—They place five of the most stupendous at the head of the list, that of Mr. McCLEAN standing A 1.

It will naturally be imagined that they, the commissioners, having selected this plan of McCLEAN and its four brethren as possessing the most practical and comprehensive merits, they were prepared to adopt their principles, and so proceed at once with their mission; no such thing! No sooner did they finish their lamination of the designs, than they declare that they are so wanting in practical detail, so dreadfully costly, so deficient in general comprehension, that they, the commissioners, declare they cannot adopt them; and, by a singular train of argument, they also conclude that the other plans, 160 in number, are so common place, that their tendency is to defile the Thames; and, in short, that although various of them possess merit, yet it is not such as to demand any favourable expression from the commission; but, as a sop to these originators, it has been often admitted that they have got some valuable hints from them. Therefore, having thus summarily discharged so much for the claims to notice of these individuals, we will now endeavour to follow the devious course of these commissioners, as deduced, from time to time, from the *Times*, and the anxious enquiries of the City Members in Parliament.

The only grand move which they seem to have entered upon is a new sewer at Westminster—to accomplish which an engine must be erected in Palace-yard; but whether to pump up sewerage, or mixed water, is by no means clear; nor is it clear that the result of this operation, which is to cost 30,000/-, is any other than an amended sewer to discharge into the Thames, as heretofore. But how it is to be cleansed in dry weather, or in what great degree it is to amend the present state of things, seems anything but clearly understood—suffice it to say, that this engine is to operate by forcing the produce up to some higher altitude; but still, when finished, where is this sewer to discharge? Surely, operations like these could not demand such an excess of engineering knowledge as have been arrayed; at any rate, their accumulated talent, aided, according to their own admission, by valuable hints contained in the published projects, should ere this have produced some clear, grand, practical, and comprehensive mode of operating upon the sewerage; whilst, on the contrary, they admit that the mode of dealing with the north side of the Thames

has never yet been agreed upon by them. They say they have hit upon an expedient for managing the south side, whereby, in the course of time, not a single sewer will discharge into the Thames between Battersea-bridge and Deptford. But what this is to cost, how it is to be performed, what length of time it is to require, or whose system it is, are particulars which it is not becoming of the public to know; and, as for the north side of the river, their cogitations have never yet embraced any system applicable to this, the chief portion of the metropolis.

Such is the present position of the sewerage management, and such also is the position of its twin sister—the sanitary commission. Up to this period, how little is done, or how small is the prospect of any active, practical, sound, comprehensive system being carried out? Notwithstanding the disregard which has been shown to the suggesters of plans, surely, surely, some or other of the schemes possessed enough of merit to be adopted forthwith in cleansing or modifying the present evils, rather than this do-nothing policy, which awaits the determination as to plans so vast and costly, as will, if ever completed, require many years, and dreadful expenditure, to compass. And what a dreadful event a return of the cholera would be under such circumstances, without a single alleviation of past evils, with crude plans and untried ideas? Of what avail are high talents in such a commission, where it is notorious that the individuals are all so lucratively employed elsewhere, that it is folly to suppose that they are going to wade through the drudgery of the necessary attendances to work such a commission effectively? The making of speeches, and the parrying of parliamentary questions, may do a little; but, if the cholera appears, great will be the responsibility and the dishonour attendant upon an office which taxes the people, and gives them nothing in return but false hopes and disappointment. The truth is, that the commissioners should be practical persons, fewer in number, and paid for devoting their time and talent to such an onerous work—viz.: the expenditure of 100,000/- per annum in ordinary, and, if some of the grand schemes are to be pursued, to a very much greater amount. It is, therefore, high time that the commission should publish a clear and intelligible specification of what they are going to do, that the public may, before it is too late, appreciate the merits of what they are to be heavily taxed for accomplishing.

COLLIERS' STRIKE IN MONMOUTHSHIRE.

[FROM A CORRESPONDENT.]

The present strike is now virtually at an end; nearly all the colliers have resumed work at the reduction of 2d. per ton, as first proposed by the masters; in some cases, however, where the men had left work without notice, the masters insist on a further reduction. Sir J. Phillips, who is a kind and liberal employer, was so much annoyed by the conduct of his men, as to insist upon a reduction of 5d. per ton, and his colliers have resumed work at this rate. Some of the political schemers who incited the men to this turn-out, are now studying political economy on the tread mill at Usk, and others have abandoned their agitation for the present. Their dupes, the honest workmen, whose true friends we have always been, and always shall continue, we sincerely pity and sympathise with. Five or six weeks' idleness is a serious injury to an industrious workman with a large family, and often necessitates many months of privation and hard labour to save enough to pay off the debts incurred during a strike. Combinations of masters or men, to regulate the price of labour, have never been permanently successful, and are alike injurious to those who promote such unions and to society at large.

MINERS' STRIKE IN NORTH WALES.

[FROM A CORRESPONDENT.]

I have been informed, by some of the men themselves, that most of the stand-out miners latterly employed in the Milwyr Mines have agreed to sign the rules for eight hours' working to-morrow, and that the agents have agreed to put themselves in communication with the committee of management, and to set the bargains again on the earliest day after their sanction to do so; the great objections to the rules appear to be in clauses 1 and 18, the former preventing one-half the day to be employed in annual bargains, and the 18th, from being prohibited from working them at all. In order to make it more clear, I send you a copy of the rules; one of which is held by each workman, and which it may be proper to publish. The stand-outs to the north of Holywell, although idle for more than two months, have not as yet agreed to the rules—at least, I have not heard of any settlement.—July 2.

1. Every person who takes a bargain will be required to work it regularly—that is to say, each person shall work eight hours every day in his respective bargain, where the agents may think right, and the air is good, and not to leave his place of work until he be relieved by his comrades; and every person who neglects or refuses to relieve or meet his mate in his place of work at the time required, shall be fined 2s. 6d.; and, should he repeat it, will be liable to be excluded these mines.

2. That one person from each bargain shall attend at the counting-house, at or before six o'clock on each Monday morning through the taking, to take such materials as may be wanted for the ensuing week; and no materials will be delivered at any other time.

3. That all levels be carried 6 feet high, and 3 feet wide, within timber, where the sea is not otherwise named, and be properly secured, where timber may be required (airies or openings, and deads in driving, and lairies or opening in clearing, excepted).

4. All persons working on ore, shall work their ground in a proper manner, agreeably to the agents' directions, and leave open every part of the ground, on the direction of the vein, for examination against the setting day. Should the agents discover, after setting day, that any ground was concealed, the taker will no longer have any claim to his bargain, and the taker and his partners shall be excluded these mines for six months for the first offence; and for the second to be excluded these mines for ever, and forfeit all their ores, or annual, to the proprietors of these mines.

5. Every person taking a bargain shall produce his full number of men at the time of setting, or the bargain shall be offered to others.

6. Every party or company of men taking a bargain, whether on futwork or tribute, provided the price be less than 4/- 10s. per ton, shall be obliged to work the bargain regularly the whole taking: or, should they think proper to give up their bargain, shall for 10s. 6d. each man, and all work then done.

7. Any person coming into the mine disguised by liquor shall forfeit 5s.

8. That one-half of the expense of dressing the ores be paid by the taker, or the man to whom the ores belong, provided their tribute be less than 2/- per ton; but, should their tribute be 2/-

STATISTICS OF COPPER, LEAD, AND TIN.

The second quarter of the current year having now expired, we proceed to our usual course of laying before the readers of the *Mining Journal* complete returns of the sales of copper ores by ticketing in Cornwall and at Swansea, and also those of lead and tin, to the utmost extent our supplies of information will enable us. In the latter metal an increase in the number of returns will be perceived, as compared with the last and previous quarters. The quantity of ores sold in Cornwall by public ticketing during the quarter ended 30th of June last was 39,680 tons, producing 30764 tons of fine copper, and money, 205,095. 1s., at an average price of 51. 3s. 4d. per ton, being, with an increase of 2072 tons of ore, and 1014 tons fine copper, a decrease of 14s. 2d. per ton in price, and in the total amount 15,946. 18s.; the relative returns being as follows:—

Ore.	Fine copper.	Amount.	Av. price.
30th June, 1850	30764	£ 205,095 1 0	£ 5 3 4
31st March, 1850	2974	221,031 19 0	5 17 6

Increase 2072 In. 1014 Dec. £ 15,946 18 0 Deco. 0 14 2

While, as compared with the corresponding quarter of the previous year, the results are as follows:—

Ore.	Fine copper.	Amount.	Av. price.
30th June, 1850	30764	£ 205,095 1 0	£ 5 3 4
30th June, 1849	36,631	187,167 15 6	5 2 2

Increase 3049 1694 £ 17,937 5 6 £ 0 1 2

Showing, we think, the trade to be still in a sound and healthy state; and as the returns for the quarter ending March last were, as we stated in the *Mining Journal* of 6th April last, the best which we had given for seven years, showing a higher value for the ores than had been given since 1842, and exceeding the average of the past 17 years by 1s. 10d. per ton, we feel no alarm at the rather unsatisfactory view which the comparative depression in the returns, as compared with that quarter, presents.

The sales by ticketing at Swansea were as follows:—

Ore.	Amount.	Av. price.
Quarter ending June 30, 1850	Tons 11,290	£ 129,104 16 6
March 31, 1850	8690	125,751 6 6

Increase 2600 £ 3,353 10 6 Dec. £ 3 0 9

Showing, with an increase of 3600 tons of ore, an advance of only 3353., being a falling off in the average price of the ore of 3d. 0s. 9d. per ton. As compared with the corresponding month of last year the result is—

Ore.	Amount.	Av. price.
Quarter ending June 30, 1850	Tons 11,290	£ 129,104 16 6
" 1849	14,925	206,206 8 0

Decrease 3635 £ 77,101 11 6 £ 2 7 8

A result calculated to allay all fear that, from the reduction of the duty, the influx of foreign ore would be so great as to swamp the British miner.

The above amount of Swansea sales were made up as follows:—

Ore.	Amount.	Av. price.
Foreign	Tons 7085	£ 103,495 12 0
Irish	3676	24,169 8 6
Welsh and sundries	829	1,439 16 0
Total	11,290	£ 129,104 16 6

The above amount of foreign ores were made up as follows:—

Ore.	Amount.	Av. price.
Cobre	Tons 4320	£ 62,389 0 0
Cuba	1920	12,509 4 0
Copyrite	442	10,886 6
Australians	443	10,703 2 0
Santiago	408	4,945 1 6
Spanish	160	1,336 9 0
Chili	22	756 5 0
Total	7085	£ 103,495 12 0

Showing an increase of 568 tons over the returns of last quarter, but a diminution in money returns of 78021. 11s. 6d., and in the average price of the ores of 2d. 9s. 4d.

And the Irish as follows:—

Ore.	Amount.	Av. price.
Berehaven	Tons 1929	£ 14,758 0 6
Knockmahan	1465	7,825 5 6
Lackamore	65	583 2 0
Ballynurtagh	146	413 19 0
Gurnadyme	63	341 1 6
Cronebane	4	124 0 0
Tigrony	4	124 0 0
Total	3676	£ 24,169 8 6

This return from the mines of Ireland is highly gratifying, as showing an increase of 1875 tons, and 10,346. 19s. 6d. in money, or more than double the ores sold during the previous quarter, the latter having been 1801 tons, and 13,822. 9s.

The above quantity of copper ores were purchased by the smelting companies, as follows:—

Companies.	CORNWALL.	SWANSEA.	TOTAL.
Tons	£ s. d.	Tons	£ s. d.
English Cop. Co.	4175	£ 23,693 4 0	£ 6 4 3
Mines Royal	2707	15,702 9 3	846 5 6
Vivian & Sons	4612	43,273 8 11	6,177 1 3
Freeman & Co.	4656	24,542 14 6	6,183 0 0
Grenfell and Sons	5961	28,635 2 4	19,699 11 3
Crown Copper Co.	122	6 11	122 8 6
Sims and Co.	5319	25,788 18 0	13,969 4 9
Williams and Co.	5929	55,200 2 5	38,403 2 3
Schroeder and Co.	2281	11,089 18 8	370 5 5
Mason and Co. —	—	233	4,228 12 0
Total	36680	205,095 1 0	11290 129,104 16 6
			50970 334,199 17 6

PRODUCE OF THE PRINCIPAL COPPER MINES OF CORNWALL,

FOR THE QUARTER ENDED JUNE 30, 1850.

Mines.	Tickets.	Tons.	Amount.	Av. Price.
Devon Great Consols	3	4175	£ 23,693 4 0	£ 6 4 3
Carn Brea	3	2380	14,035 17 6	5 19 0
United Mines	3	2911	12,592 16 0	4 6 6
Par Consols	6	1978	11,098 16 0	5 11 8
Great Consolidated	2	1041	8284 7 3	18 9
Wheat Basset	2	1415	7533 3 0	5 6 6
Wheat Soton and Pendarves	2	1095	7474 17 6	6 16 6
Tywarhale and Nancekuke	3	1574	7292 5 6	4 12 8
Tincoff	3	1850	6484 18 0	3 10 0
North Pool	3	1715	6121 17 0	3 11 4
Wheat Buller	3	810	5575 19 0	6 17 6
Camborne Vean and Wh. Francis	2	1169	5354 4 6	4 11 8
South Wheal Frances	3	702	5174 14 0	7 7 5
East Wh. Croft, Duhndance, and Longclose	2	1159	4885 3 0	4 2 7
Wheat Friendship	4	685	4749 16 6	7 0 0
Trevikey	3	860	4587 19 0	5 6 8
Levant	1	511	3629 15 0	7 2 0
West Wheal Treasury	3	726	3541 6 0	4 17 6
Phoenix	2	200	2478 15 0	12 7 10
Bedford United	3	358	2343 19 6	6 11 0
Condurrow	2	525	2148 1 0	4 1 10
Treasvean	3	697	2054 2 6	3 0 0
Dolcoath	2	485	1994 5 2	4 2 3
Wellington	2	321	1861 4 0	5 16 0
Alfred Consols	3	215	1731 16 6	8 1 1
Wheat Mary	3	388	1511 1 0	3 18 0
Marke Valley	2	529	1494 16 6	2 16 0
South Tolgus	1	183	1387 16 0	7 11 8
Ferrars St. George	3	316	1366 8 0	4 6 5
Wheat Agar	3	298	1337 2 6	4 10 0
Wheat Tremayne	3	470	1301 11 0	2 15 4
Holmboe	2	234	1232 7 0	4 18 0
Treliegh	3	260	1109 8 0	4 0 0
West Wheal Seton	2	221	1084 12 6	4 18 6
Wheat Comfort	3	583	1033 5 6	1 15 5
West Fowey Consols	2	166	936 9 0	5 12 9

Mines.	Tickets.	Tons.	Amount.	Av. Price.
Poldice	1	172	835 18 6	4 17 4
South Wheal Fortune	2	104	636 11 0	6 2 6
Trethellan	1	134	481 8 6	3 11 9
Wheat Henry	1	85	442 5 0	5 4 0
Charles Town	1	97	419 18 0	4 10 9
Wheat Ellen	1</			

Original Correspondence.

MINE INSPECTION.

SIR.—When Mr. Richardson criticised my letters on "Mine Inspection and Life Insurance," for their strong attachment to "bye-gone customs, cherished notions," &c., I gave him credit for having some meaning in those remarks. I confess I did not understand them; but as the only thing I did advocate in my letters was this "bye-gone custom" of life insurance, I gave him the benefit of supposing his epithets were addressed to the subject. It appears they were only vague attacks, and that I was wrong in believing he wrote with any significance.

When I requested Mr. Richardson to make the plan intelligible which he supported, it was under the impression that no public measure would be produced at this late period of the session, and that a discussion in the interval would be the best course for promoting his views. What has since occurred certainly renders my demand for his private opinions unnecessary; the enactment which is contemplated will supply the want. I should myself, in advocating any plan, have grounded my arguments upon its merits. I should have dissected and demonstrated the subject before me, and explained the utility and action of its members, as the best means of convincing that it had a meaning, and that I understood its meaning. Doubtless, Mr. Richardson sees good reasons for a different course. We shall, perhaps, have them in the bill, whence his care to avoid details in writing; for I do not see that it is possible for any one to write on a subject at the length he has lately done on mine inspection without letting fall a single word to the purpose.

As Mr. Richardson "courteously" informs me I have not yet learned to read, I must be cautious in an opinion; but, according to my "eury" understanding, I should say either that he is bewitched, or that his amanuensis has copied the wrong numbers from Mr. Elliot's evidence. If these answers are a "strenuous support" of Government interference, what is a doubtful support of it? I fear the majority of individuals who have not yet been favoured by attaining Mr. Richardson's perfection in the art of reading, will understand them as I do, to express "a hope," as what he describes "is to come," that "it would some good may be effected by it." The grounds of this hope, "if" it would have the effect of bringing other counties to the level of the northern district—"if" the Government "got some good practical men to superintend," I shall remark on presently.

Why will Mr. Richardson have the proof over again, that he considers inspection and the extinction of danger will be synonymous events, before he offers the least remark in invalidation of that proof? How is the sacrifice of the lives of a valuable and industrious race to be put a stop to, without the extinction of danger? I have over and over requested Mr. Richardson to argue with less declamation and more precision. If he adheres to the sweeping style, it is not my fault.

Mr. Richardson has a tender solicitude over characters as well as lives. I shall prefer taking care of my own, without the aid of an inspector, however great his qualifications. I shall maintain it wherever the appreciation is desirable, by continuing to assert plain facts. That when new offices are proposed, there are numbers of persons looking forward to fill them is one of these facts, and that such persons will recommend the creation of such offices is another. Mr. Richardson is surely himself charging a windmill, when he takes offence at such truths. Am I to assume that the miners' friends differ from all mankind, and that there is not one single interested voice to be heard in the clamour for inspection? I do not wish to dispute upon "courtesy." Mr. Richardson may retain the post he has assumed of *arbiter elegantiarum*, and judge the difference between us, which is this:—I have asserted there are numbers of persons desirous and ready to receive the salaries of inspectors, and in acquiring this solid comfort they are willing to persuade, and be persuaded, that it will impart an immediate capacity of doing good to others as well as themselves. This is one of the most ordinary and agreeable delusions of life, which a wise Legislature will always be on its guard against being deceived by. It is not the business of these private men to meddle with matters that are "too high for them," and break their necks in speculating on the *ultimate and national effects* of their own comforts. There are, of course, different shades of interestedness, but when we consider what a very intoxicating liquor the notion of being benevolent at other people's expense has always proved to be, my accusation is far from charging any one with a *crime*.

I wish Mr. Richardson had taken the pledge when I offered it to him, because then the sobriety of his own opinion would have been beyond suspicion. But what is the accusation that he brings? not that persons who do not see anything very clearly beyond that point are desirous of improving their own condition; but that his opponents from base, foolish, or unworthy motives, are actual and constant *accessaries in murder*; for what else is a "ruthless sacrifice of lives?" Let him judge whether he or I most "disregard the courtesies of civilised society." I was not aware morals were a matter of taste; certainly this taste of morals I do not like. I will say nothing of his personalities on "discretion, prejudice, corns, inattention, manliness, ingenuousness, reading, and despair," &c. &c., which have been the answers to my enquiries for information; though I think, as Mr. Richardson took on himself to censure me, he might have indulged in something that was pertinent.

Mr. Richardson may be right in considering all this the very pink of courtesy, and I will leave him in the middle of it, for my object is anything but personal alteration. The important purpose I have in view is a fair, honest, substantial exposition of the practical advantages of Government interference, which are to counterbalance its known and inevitable evils. To ring the changes on Adam Smith, Turgot, and David Mushet, is a poor substitute. We know, by arithmetic, that three names are capable of six transpositions, and, if "sound heads" are added, of 120; but, does this forward the discussion, or make the authorities I quote ridiculous? As an Englishman, and a mine owner, I feel that the enactment of such a measure will be a sentence of degradation upon a very large and important interest, and I desire to hear the evidence on both sides on which the sentence is to be pronounced. "Railing accusation" is not *proof* of evil, neither is vague assertion *guarantee* of good. The enactment can only assume one of two shapes; it must be a penal statute, and the inspectors police to regulate the criminal default of the mine holders; or else a provision for their incapacity, stigmatizing them as incapable, and providing guardians for their imbecility. How, then, is it that the mining interest of this country has attained a position of such eminence?—By default and imbecility? Whence has the Government or Parliament derived their superior light, or any information at all which they possess on the subject? Is it not from that mining interest which it is sought to control? Are they, then, already wiser than their teachers? And who has decided that they are so? The proposal of inspection has originated with a clique, who work by the suppression of facts and the expression of exciting misrepresentations; and I shall do what little is in my power to enable truth to frustrate the desire of handing over a weighty interest, which has achieved the state of perfection described in the late reports, without the aid of the State, to a system of dangerous expedients, that it may be preserved intact from that tinkering and experimenting which is unhappily so prominent a feature in present legislation. If all things "antiquated" are to be done away, I would rather explode the *seet of busy bodies*; not only are they as old as the apostles, but we read of a prating fellow of the class who reaped a broken head 1000 years before their era, his conceit described as towering upwards, like a conductor to attract the stroke. This summary jurisdiction is happily abolished. It is true, business must have existed before busy bodies, just as bottles preceded the invention of bottle-brushes; but as minding one's own business can hardly be entirely abolished, minding other people's is quite old enough to receive the requisite condemnation of "antiquity."

The reports of Messrs. Blackwell and Phillips are extremely interesting; they contain *more* practical detail and *less* hypothetical disquisition than their predecessors, but they still leave the real points which are involved in the proposed interference untouched. They place in a clearer light the perfect management which has been attained in the best collieries; and they repeat the undeniable and inevitable fact, that all collieries do not enjoy equally the benefit of this skill—that some are faultless, and some deficient in different degrees; but from these facts, to the propriety of Government interference, where is the *sequitur*? Between the two positions there is a chasm in the argument as deep as the Monkwearmouth Colliery. The attention of the commissioners is mainly directed to the *possibility* of establishing the system, not to the *propriety* of it. The main stay of their recommendation is that no insuperable difficulty exists to perpetrating the intrusion; and a proof is adduced in the invariable courtesy of the mine-owners in displaying their arrangements, and imparting information. The obvious inferences from this are passed over to press on to the required deduction that the establishment is *practicable*. The next position is the benefit to accrue, supposing the inspection established; and this hangs upon the slender particle "if." Upon this thread all the arguers in favour of inspection propose to suspend their cumbersome machine. "If each

commissioner has a district, with the help of *sufficient assistants*," is Mr. Phillips's basis. "If other districts are raised to a level with ours," and "if the Government got some good sound practical men," is the basis of Mr. Elliot's hopeful endurance of the coming evil, expressed with his usual practical sagacity. "If they are not overmeddling inexperienced individuals," says Mr. Dunn, with his usual speculation. Upon this the whole question depends; for I repeat what I have constantly asserted, that only overmeddling individuals will ever press forward into the post of inspectors. In this I have the support of the first mining authority in the kingdom. Mr. Evan Hopkins asks, in his letter of the 5th June—"Is there a man of experience and judgment who will take upon himself the heavy responsibility of preventing accidents in collieries by mere casual visits?" I have asked again and again who the men are to be, and whence are they to be derived, possessing that superhuman sagacity of intuition, that they will be able to do more by these casual visits than the present managers can effect by constant attention.

The commissioners seem fully alive to this difficulty; the reports do not indicate such a class of beings; on the contrary, they abound with statements of the scarcity of *men* adequate to carrying out perfect arrangements in every part of this work, down to that most important desideratum—"steady good conduct in the workmen." These are met by equally abundant proposals on their part (whether fallacious or not, I cannot now examine) for remedying the deficiency. Why, then, in the name of common sense, before these deficiencies are corrected, is the steam of Government inspection to be put on, to force into work a machine, the parts of which are not yet fitted together? I have repeatedly pointed out the scarcity of that rare union of judgment, intelligence, activity, and integrity, which constitutes the complete manager. This difficulty is, as a matter of course, felt and expressed by the mineowners in the late memorials on mining schools, which complain "that, in many instances, no competent managers are to be found;" and I repeat the old, but never answered, question, where, when masters find a difficulty in meeting competent servants, is the Government to acquire that tribe of accomplished agents, who are to do more by glance than the others by the study of their lives? The proposal so far outrages common understanding that, but for the noisy efforts of a speculative clique, it never could have obtained a hearing.

To state plain facts is to "beg the question," according to Mr. Dunn's sense of Mr. Hopkins; whereas Mr. Dunn *assumes the question*, by resting it on an imaginary basis. This enormous further evil presents itself, that whatever practical talent the Government may be able to press into the service of inspection, there will be so much ability diverted from the most efficient channel. Every able man that is taken out of a pit, to swell the ranks of Mr. Phillips's "sufficient assistants," will be the gain of a loss. If the inspectors are *superior* to the viewers, they ought to *take their places*—it will be a public wrong to give them a less practical employment; if they are *inferior* to the viewers, they can have no business to inspect them. There is no escape from the dilemma of these alternatives; the contemplated enactment *must* inflict one of the two evils. It will either subject sound men to the mischievous vexation of the incompetent, or it will remove them from the sphere where their competence is most available. The state of the case against the mineowners is this:—To use Mr. Phillips's words, "the success of the general arrangements depends on the aid of subordinate officers, trained to acquire and act upon that intimate and instant consciousness of passing occurrences, which is necessary for the ordinary working of the mine, and upon the right use of which, in a moment of danger, the safety of the men may entirely depend."

No evidence can be more conclusive than this passage against any interference. It shows in the strongest light the utter inutility of the wandering inspector; and that mischief alone could result from meddling with such nicely-balanced arrangements. No argument is, or can be, founded upon it; but it is further alleged that, although the majority of mines are in this condition, there are *some* which are more defective. This is the only argument on which the call for inspection is grounded. Surely, in an age of such acuteness and illumination, something more ingenious can be devised for the improvement of deficient collieries, than the clumsy stalking horse of a Government inspection over both good and ill together. Fires occur in a city, both by negligence and intention. Must the corresponding device be the re-institution of the curfew, and the revival of that very ancient body of inspectors, to visit our houses at a regular or irregular hour, to put out our fires and take away our lucifers? There are haunts for thieves and other abandoned characters, where all iniquity is concocted. Would it be borne, for the misconduct of some, that the houses of a whole town should be subjected to the domineering visits of the police, to see if anything were amiss? Yet it is to a device not more astute and discriminating, equally vexations and less efficient, that it is proposed to subject an interest, which it cannot be denied wears at least a *creditable aspect* in these reports, and represents, at the lowest estimate, in collieries alone, a capital of 100,000,000. sterling. DAVID MUSHET.

[To be concluded in next week's *Mining Journal*.]

ERATA IN THE CONCLUSION OF "PATENT RIGHT AND PATENT LAW."—Quotation from Pope: for "or seen," read "nor seen." Sixth line below, for "and if the iron trade," read "if the iron trade had."

GOLD MINES AND CANALISATION OF THE Isthmus of Darien.

SIR.—May I trespass on your columns with a few concluding remarks on the above subject? Immediately after the closure of the mines of Cana, by Royal decree of March 12, 1685 (v. 13 n. 7, of the Archives of the Secretariat of the Vice-Royalty of Peru at Lima), the white Spaniards withdrew, with their slaves, and since then no operations were ever undertaken there. The natives of Darien (Indians, negroes, and samboses) having had an interest in concealing the existence of gold in their country, from fear that, if known, the whites would come there, and make them slaves, have thrown every obstacle in the way of the two or three people who have ever endeavoured to penetrate to Cana, of which obstacles I have had my share; consequently, even the name of Cana had almost become unknown, no person in Panama having ever been there, nor even any of the natives of Darien, except those born there, who finally abandoned it about 20 years ago since, when the road from Molineca having grown up in bush was impassable, until I had it cleared; for which purpose I would have found it impossible to engage men, even at \$2 per diem, had I not a stringent order from Don Antonio Baraya, the Prefect of the territory of Darien, at Yavisa, to the Corregidor of Molineca. No fair trial has ever been given to the development of the mineral riches of either Darien, Panama, Veraguas, or Choco, nor have any carefully-conducted investigations ever been made. The natives have no tools of any kind, but even with their knives and a washbowl they often procure large sums of gold; but they only go to seek gold when they have some pressing need of ready money, as for a marriage, &c., or when they wish to make earings, bracelets, &c. However, very recently the Americans have commenced operations, with great success, in Veraguas, whilst the English are lagging behind in enterprise; and Prof. Ansted, in his work on gold, states that, during the years 1800 and 1804, there were introduced into the Provincial Treasury, from the River Concepcion and its branches, 2067 lbs. of gold, to pay the 3 per cent, being 3 per cent. of the produce of these washings—a prodigious return, especially considering the very small number of diggers who could be found in that river. This gives nearly 70,000 lbs. of gold, or nearly 3,000,000. sterling, for the whole return.

It occurs to me to be a pertinent question to ask, why long after the road from Panama to Portobello had been established as the regular line of transit across the isthmus, and after the Indians had cut off the communication between Cana and the sources of the Savana and Chuquanaqua and the Gulf of Urabá and the Atlantic coast, the Spaniards still maintained so many and such well-garrisoned forts in the territory of Darien? for instance, four at the mouth of the Tuyra, the Fuerte del Principe in the Savana, the fort at Yavisa, one at Chuquanaqua, also at Chapigana, Real de Santa María, Molineca, Pinogana, and Cana (Santa Cruz). Surely they could not have been for the protection of uninhabited, impenetrable forests. No fort exists between Panama and Portobello. As the old Spaniards of America were by no means agricultural people, but exclusively soldiers and miners, and as by their custom every military establishment should be supported by its own locality, no funds ever coming from Spain, and as they were a people who would not stop anywhere for small gains, we are under the necessity of concluding, that those forts were for the protection of the mines, and that the mines were very rich—a fact still further proved, by the accounts in the archives of Panama, of sums transmitted to Spain for the King's 5 per cent; by the repeated incursions of the buccaneers, and by the Royal decree for the closure of those mines. As they were in full productiveness when abandoned, it may be presumed that the gold is there still.

As to the canalisation of the isthmus by the River Savana, it presents such obvious advantages—depth of water, directness of course, absence of brushwood and swamp on its banks, and consequent healthiness, narrow-

ness of the isthmus, low elevation, and of narrowness of the ridge mountains at that spot, and consequent short distance of cutting, clean coast, and good anchorage on the Atlantic side, and a short and easy exit into the Pacific, &c.—that it *must* ultimately be adopted. I would propose that labourers be obtained from the West Indies, and from all the coast of America, from Brazil to Carolina. From all points on that line of coast, well acclimated white men, willing to work, could easily be got together by a few circulars posted to the various seaports by the West India mail; and thus the necessity of bearing up an emigration of free negroes from Africa, recommended in the *Times* of 13th June, be avoided. Should the plan of a free emigration be commenced, some arrangement should be made with some of the native kings; as, nine years ago, when I was in Demerara, the *Superior* arrived with only nine emigrants, although she had been three months on the coast of Africa, and had brought out four Demerara negroes as delegates; she lost several white sailors by fever. Other ships came in with even fewer emigrants; but this ill success was owing to the opposition of the missionaries and of the Colonial Office, and the neglect of any preliminary arrangement with the native kings. I expect soon to receive a communication on the subject of the Savana river from my friend, General José Domingo Espinar, of Panama, Brigadier-General and Colonel of Engineers of the Army of Peru, M.B. of Saragossa, and M.D. of Lima, the best surveyor in South America.

Dominick-street, Dublin, July 2.

EDWARD CULLEN, M.D.

ON THE TREATMENT OF SULPHUR.

SIR.—From the tenor of "J. W.'s" letter, in last week's *Mining Journal*, I am led to infer that he holds a patent for the application of steam to sulphurates in reverberatory furnaces, and that he refers to that when he states that I am regardless of the rights of property. I beg to state, for "J. W.'s" more especial consideration, that I hold an expired patent for the application of steam to a sulphur on the hearth of a reverberatory furnace. The object I then had in view has been more fully attained by the adoption of the water-grate.—T. H. LEIGHTON: July 2.

THE WELSH COLLIERY CASE—DUKE OF BEAUFORT v. MORRIS.

SIR.—As you have taken some interest in this suit, I beg to enclose you copy of the Lord Chancellor's final judgment. G. BYNG MORRIS. Reform Club, July 2.

"When this case came before me, upon appeal from the decree of Vice-Chancellor Wigram, I thought the decree right, with the exception of an admission, the defendant was called upon to make, of a fact which I thought the plaintiff was bound to prove. Striking out, therefore, that part of the decree, I affirmed the rest, which was simply to retain the cause, giving to the plaintiff an opportunity of establishing his right at law, for the suit was strictly an application to a court of equity for the protection of an alleged legal title, the plaintiff alleging that he was proprietor of a certain colliery and works, and engines for draining the same; and that the defendant was proprietor of adjoining collieries and works, which he was using and managing as to let water illegally flow into plaintiff's colliery and works, and so create damage and injury, and thereupon praying an injunction. All this depending upon the legal right, as alleged, Vice-Chancellor Wigram very properly withheld the interposition of equity, until the plaintiff had established his legal title, consisting of the right alleged, the acts complained of, and their illegality. The plaintiff failed in the action, because, as it is alleged, it appeared that the level of the water in plaintiff's mine was higher than the levels of defendant's adjoining mine, so that there could not be any flow of water from the defendant's mine to that of the plaintiff's, and, consequently, that there could not be any wrong or injury done to the plaintiff. This would have been conclusive of the fate of the suit, but the plaintiff having petitioned for leave to reheat the appeal, and upon the application, leave having been again given to discuss the case, as upon the equity reserved, the whole merits of the case were gone into; and what I resolved for consideration was, whether under the facts as they now appear, and with the case as made upon the pleadings, the plaintiff is entitled to any relief. That he is not entitled to any relief founded upon any injury actually sustained to his legal right, is established by the result of the trial, and cannot now be disputed. But on behalf of the plaintiff, it was contended that he is entitled to an injunction upon the principle of *quia timet*, and that the injury, though not actually sustained, is imminent, and, if not prevented, will arise from the illegal act of the defendant's actually in progress. The facts of the case, as stated in the bill upon this subject, are very simple; it being unnecessary to advert to the earlier part of the statement, showing the history of these mines, and the terms under which they have been held, according to the facts stated to be actually existing. The case made is—the plaintiff, as proprietor of a colliery, called Landore, in which there is an engine raising and discharging the water at the surface; that the defendant was proprietor of another colliery, called Pentre, of a higher level than Landore, and that the water collected in the Pentre had formerly passed through works of Major Phillips's into the Landore Colliery, and had been discharged by the Landore engine, and of this no complaint is made, nor is it alleged that the plaintiff has a right to object to the ordinary drainage from Pentre being discharged through Landore; but the alleged grievance is, that there are certain old workings in Pentre, forming pits, 20 or 30 yards deep, and below the drainage through Major Phillips's works, full of water; and that the defendant having another colliery, called Cae Grobros, being at an intermediate level between Pentre and Landore, was opening the ground between Cae Grobros and Pentre, at the bottom of these pits (Cae Grobros also communicating with Landore), the effect of which would be to bring down upon Landore all the water collected in these pits, which would swamp Landore, and overpower the engines. The answers stated that—what the bill represented to be in progress had actually been effected, and that the communication between Cae Grobros and Pentre had been completed, and all the water drawn from those pits, but that no injury had arisen to the plaintiff. This appears to be the fact; and the fact being so there was an end of the bill, as a bill *quia timet*—the fact was accomplished, and if the plaintiff had a right to complain, his remedy at law was his proper course, and his failure proves that there has been no wrong or injury. He failed because, as it appears, notwithstanding the water coming from Pentre and Cae Grobros, the level in Pentre is still lower than that of Landore; the plaintiff having ceased to work his engine, so that no damage has been sustained to support the action, and none is to be apprehended from any future acts of the defendant, the whole having been completed, and, as matters exist, no injury inflicted. It appears to me, therefore, that, under the existing state of things, the plaintiff cannot have any relief upon his bill, whether it be considered as seeking the protection of equity in support of legal rights, or a protection against anticipated injury; and, consequently, that the bill must be dismissed with costs upon the equity reserved, and the petition dismissed with costs."

NOISELESS CARRIAGE WHEELS AND HORSE-SHOES.—In the *Mining Journal* of July 22, 1848, we noticed the introduction of some improvements in the construction of wheels for carriages, by Mr. Andrew Smith, the patentee of the wire-rope machinery, which were likely to prove of much value to the public, as not only adding greatly to comfort in travelling over paved streets, from their being perfectly noiseless, but from their combining a much greater degree of safety. The principle consists in forming the hoop or tire of two separate layers of galvanised iron, which are riveted together, and re-galvanised in the mass; this division of parts cutting off vibration when travelling over the roughest stones. Mr. Andrew Smith has also applied the principle to springs, in which each plate is galvanised separately, and can never rust. The axle is also made to fit the axle-box with perfect exactness, and by a lining of fusible metal, is self-lubricating, and not liable to heat; the whole in conjunction secures a degree of quiet, easy, and safety hitherto unattained. We have been led again to notice these ingenious improvements, from the fact that the patentee having produced a noiseless carriage, found that the horses' feet made more noise than ever, and seeking for a remedy has applied the same principle to the horse-shoe. This is effected in the most simple manner, by making the shoes in two thicknesses of galvanised metal, then riveting them together, and re-galvanising. A horse equipped in these pumps trots over the granite streets of London as softly as if he was on a bowling-green.

FLAX MADE TO RESEMBLE COTTON.—However much the following method may now admit of simplification, it is very interesting to see how much cotton was esteemed formerly in relative value, and how much skill and capital have had to do with its present general development. In the *Swedish Transactions*, for the year 1747, a method is given of preparing flax in such a manner as to resemble cotton in whiteness and softness, as well as in coherence. For this purpose a little sea-water is to be put into an iron pot or untinned copper kettle, and a mixture of equal parts of birch ashes and quick lime strewed upon it; a small bundle of flax is to be opened and spread upon the surface, and covered with more of the mixture, and the stratification continued till the vessel is sufficiently filled. The whole is then to be boiled with sea water for ten hours, fresh quantities of water being occasionally supplied in proportion to the evaporation, that the matter may never become dry. The boiled flax is to be immediately washed in the sea by a little at a time, in a basket, with a smooth stick, at first while hot; and when grown cold enough to be borne by the hands, it must be well rubbed, washed with soap, laid to bleach, and turned and watered every day. Repetitions of the washing with soap expedite the bleaching; after which the flax is to be beat, and again well washed; when dry, it is to be worked and carded in the same manner as common cotton, and pressed between two boards for 48 hours. It is now fully prepared and fit for use. It loses in this process nearly one-half its weight, which is abundantly compensated by the improvement made in its quality.

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VALUABLE PRODUCTION FROM TURF.

The vast extent of peat or bog land existing in this kingdom, particularly in Ireland, the produce of which has hitherto generally been employed only for fuel among the poorer classes in a simply dried state, contains a variety of substances, which, when extracted by chemical means, may be converted to valuable commercial purposes. Much attention has of late years been turned to the subject, and various plans have been proposed, and patents taken out for drying, compressing, converting into coke or charcoal, and extracting the various oils, acids, ammonia, &c., contained in it. We have been led particularly to notice the operations of the Dartmoor Peat Charcoal Company (a private firm), who have obtained a grant of peat land on Dartmoor, of 8500 acres, where they have carbonising works erected.

We have during the week had an opportunity of inspecting, at their London office, in Birch Lane, some of the productions from turf obtained during the carbonising process; and when we regard a piece of dry uninteresting looking compressed vegetable matter as the source, the result is truly extraordinary. We were first shown a specimen of turf from near the surface, and one in a state of natural compression from depths of from 10 to 30 ft.; and then various descriptions of coke or charcoal, differently prepared, for deodorising, domestic fires, metal working, and iron smelting. A large proportion of a highly fetid oil is obtained during the destructive distillation, which, however, by purification can be converted into a brilliant oil, free from any disagreeable effluvia. The bitumen produced can, by solution, be rendered exceedingly pure, and may become highly advantageous for protecting iron and wood-work exposed to the atmosphere. A large quantity of stearine, or vegetable tallow, is produced, of a dark colour, but which can also be purified and bleached. The sulphate and other salts of ammonia, and pyrolytic acid, are likewise collected.

In addition to these useful productions, there is a brilliant yellow ochre, which forms a valuable pigment. These several highly valuable products, from a substance covering millions of acres of land, which, by its removal, might be brought into cultivation, opens a fine field for the profitable investment of capital, and the employment of the rural population; and this firm have pioneered the way to a success which we hope to see triumphant, not only in Dartmoor, but extensively carried out in suffering Ireland. Notwithstanding the several attempts which have been made to the profitable conversion of peat to employment in the arts, this firm are the first who can be said to have commanded complete success; and much credit is due to them for their exertions in this important branch of science.

THE GREAT SCOTCH COAL-WORKING QUESTION.

The long litigated dispute between the Earl of Glasgow and the Hurlet and Campsie Alum Company was decided in the House of Lords on Tuesday last, when judgment was given on the appeal from the decree of the Court of Session. The essential question in the present proceedings arose upon the construction which was to be put upon a contract for a lease, which had been entered into as far back as the year 1800, between the late Earl of Glasgow and the predecessors of the respondents, wherein the latter had acquired a lease for the term of 63 years of the alum ore in the coal mines, and what are termed the coal wastes, belonging to the noble earl at Hurlet, in the county of Renfrew. The point in issue was whether the landlord and his coal tenants were entitled to work out a large extent of "pillar coal," the said coal in the mines having been exhausted, without a contravention of the terms of the lease which had been granted to the predecessors of the respondents. Under the terms of that lease the Earl of Glasgow conveyed "the whole of the ore in the said coal pits and coal wastes at Hurlet, from which alum can be manufactured, excepting the pyrites and copper stones, which are already conveyed to the partners of the Hurlet Copperas Company, and that during the space of 63 years from and after the term of Martinmas, 1799." The Earl of Glasgow is the proprietor of very extensive coal wastes formed in working the large field of coal in his Lordship's property at Hurlet, in the county of Renfrew. The other appellants, Messrs. John Wilson and Sons, are his Lordship's tenants of the coal and limestone, under a lease for 17 years, commencing in 1835 and ending in 1852. The respondent, Mr. King, has a grant, by a contract dated in 1800 from the late Earl of Glasgow, of the whole alum ore or schistus in all the coal wastes at Hurlet, for a period of 63 years, from Martinmas, 1799, ending at Martinmas 1862, with a right to the use of the wastes during the same period for collecting and working the ore. The formation of the coal wastes at Hurlet is the result of the mode there adopted of working the coal, which is that of working by stope and room—the stope being the pillar which is left for support of the roof, and the room the vacuity between the pillars caused by excavating the coal. The pillars are essential for supporting the roof; and it is the statement of both parties, in conformity with the undoubted fact, that whenever the pillars are removed the roof immediately gives way, and the whole superincumbent strata fall down and entirely extinguish the wastes. The question between the parties now for consideration is, whether the conveyance of the alum ore and the Earl of Glasgow's coal wastes to the respondents' company is an absolute and unconditional conveyance for 63 years, so long as there is workable alum in the wastes, entitling the respondents to insist on the preservation of the wastes, and to prevent the removal of the coal pillars necessary for support of the roof during that whole period; or whether, as the appellants contend, the right of the respondents to the alum ore and to the coal wastes is subordinate to the right of working the coal by the proprietor or the coal tenant, and not sufficient to warrant any opposition to the removal of the coal pillars at the discretion of the parties interested in the coal.

In charging the jury upon the proper construction of the contract of 1800, the presiding Judge gave the direction that for the full period of 63 years in the contract, and while there is alum ore in the wastes, the respondent is entitled to prevent the appellants from removing the coal pillars, so far as these are necessary for supporting the roof of the wastes, and the judges of the first division were unanimously of the same opinion. The minerals found in the Earl of Glasgow's property at Hurlet are various. There is, first, a seam of coal of a soft and sulphurous quality, and of about 5 feet thick. Immediately above the coal lies the alum ore or schistus, varying in thickness from 2 to 3 inches up to 3 feet; and above the alum ore there is limestone rock about 3 feet thick. Above the limestone there is another bed of aluminous schistus, called the duff bed, and some small seams of ironstone, &c. The alum schistus is a substance of very peculiar qualities, and it is confined in Scotland to a district of country in the immediate vicinity of Hurlet and of Campsie, in Stirlingshire, where the respondent also manufactures alum. This ore is also found at Whitby, in England, in large quantities, but of a very different composition from that at Hurlet—the proportion of sulphur and alumina being greatly less. It is the limestone which constitutes the strength of the roof in the Hurlet wastes. There is no such cohesion or firmness in the upper materials as to form a roof; and, therefore, wherever the limestone is wholly removed or fractured, the superincumbent mass comes down, and fills up the waste at the particular place, constituting what the miners call a lum. This descent of the upper strata does not, however, take place in the proper working of the lime as practised to a great extent at Hurlet, where, in the wastes now open, above 50 acres of limestone have been worked, after exhausting the coal and alum schistus. The mode adopted of working the limestone is not to remove the whole of it, which would be dangerous, and even impracticable, but to leave about a foot of it in thickness untouched, called by the miners the lid or bonnet, which is sufficient for the support of the roof. Where, therefore, the limestone, as well as the alum schistus and coal, are all removed, the wastes still remain open, and the cavity is of considerable height, varying from 9 to 12 feet. In these portions of the wastes the pillars are of course composed—first, of the coal; second, of the schistus; and, lastly, of the limestone, and the rooms assume the shape of a vaulted chamber. The extinction of the wastes by the fall of the roof, following on the removal of the pillars, is termed a crush. This crush is admitted on both sides to be the inevitable result of removing the pillars; and, when once commenced, it is extremely difficult to say how far the crush may proceed, in consequence of the "creeping" and lateral pressure which frequently take place, and extinguishes a great extent of waste. It was, then, in reference to the removal of any of these "pillars," that the proceedings out of which the present appeal had arisen had been instituted.

Sir F. KELLY and Mr. INGLIS were heard in support of the appeal, and Mr. BETHELL and Mr. COCKBURN were heard on behalf of the respondents.

Lord BROUGHAM now moved the judgment of the House, and after having adverted to the facts of the case, and to the preliminary objection which he had a few days since overruled, and that the addition which had, subsequently to the tender of the bill of exceptions, been made to those exceptions by the learned judge in the Court below was extremely irregular. Their Lordships had since that overruling heard the case upon its merits, and he was of opinion that the pillar coal could not be removed, and that the construction which had been put upon the terms of the lease by the Court below, both in the first division and at nisi prius, was the true and correct construction. That being so, he should move their lordships to affirm the interlocutor of the Court of Session, and that the appeal be dismissed with costs.

One of the most valuable iron mines in England has been discovered in Whithaven. The vein is 13 and 25 feet in thickness, and contains 65 per cent of iron.—*Newcastle Journal*.

THE ELECTRIC TELEGRAPH IN FRANCE.

The report of the committee on the electric telegraph, on the project for opening the telegraph to the use of the public, has been brought up by M. Leverrier. It states that several lines have been constructed, and are in course of construction, and that shortly the north of France will be in telegraphic communication with the centre and the west. The lines of Châlons-sur-Marne and Tonnerre will render more rapid the relations with the east and south. Later these lines will be continued to Nantes and Bordeaux on the one hand, and to Strasburg and Marseilles on the other. After a long discussion, the majority of the committee has resolved to recommend the opening of the telegraph to the public, but under certain conditions, such as that no person who shall be unknown shall be allowed to use the telegraph—that all despatches, except articles of newspapers, shall be copied into a register at full length, and that the Government shall have the power, when it may think fit, to suspend the use of the telegraph. The tariff for despatches the committee propose to fix at 3 fr. for from 1 to 20 words, with an addition of 12 c. a myriametre. The committee also propose that the Government shall contract with the journals to send news to be inserted in them at a reduced cost. The report of M. Leverrier contains much interesting and valuable matter, but as we have not space to publish it in detail, we have been obliged to confine ourselves to some extracts:—The lines of electric telegraph are spread over all the territory of the United States. One commencing at Burlington, on the frontier of Canada, goes to Boston, New York, and Washington, passing through Baltimore and Philadelphia; then crossing Virginia, Carolina, and Georgia, it extends by Richmond, Raleigh, Columbia, Augusta, and Mobile, to the Gulf of Mexico, and to the embouchure of the Mississippi, which it reaches at New Orleans. From New Orleans a second principal line ascends the valley of the Mississippi and Ohio to Louisville. Other lines commence from the shores of the ocean, going towards the centre of the country, or ascending to the great Northern Lakes. The line from Burlington to New Orleans is not less than 2600 miles—that is, 290 miles between Burlington and Boston, 250 miles between Boston and New York, 343 miles from New York to Washington, 509 miles from Washington to Colombia, and 1207 miles from Colombia to New Orleans. The line from New Orleans to Louisville is 1150 miles. These lines are not always made to follow the railways, but generally take the shortest course, and this on account of the great distances which mostly separate the principal stations. The wires are suspended on posts of wood insulated on glass rollers, and often consist but of one or two; but when they pass by a river, or arm of the sea, they are enclosed in gutta percha tubes, and sunk under water. The telegraph from New York to Washington passes thus under four miles of the sea. The construction and repair of these telegraphs are submitted to the most rigid economy, and frequently the farmers, through or by whose lands they pass, undertake to keep them in order, for the liberty of using the telegraph.

The report then gives the details of the electric telegraph in England, and proceeds with a description of the Prussian system, the principal anomaly of which is the wires being generally carried underground. The committee recommends a serious consideration of this part of the Prussian system, and, if approved, its adoption in France. Speaking of the advantages in the early dissemination of political intelligence, which would be afforded by a large and complete electric telegraphic establishment, the report says—"The provincial journals, put in possession the same day of important news, may publish it simultaneously with the journals of the capital, and nothing could prevent the Government from communicating every evening to all France the principal events of the day. By thus affording a means of testing the truth of statements which often arrive altered or mutilated, a great and moral revolution would be effected in the press."

The report then proceeds to consider the various improvements proposed in the telegraph, but as a large amount of information upon this part of the subject has already appeared in the *Mining Journal*, we refrain from entering into an unnecessary iteration of particulars.

IMPROVEMENTS IN THE ELECTRIC TELEGRAPH.

Mr. J. L. Pulvermacher, C.E., of Vienna, has obtained a patent for improvements in galvanic batteries, in electric telegraphs, and in electro-magnetic and magneto-electric machines. The patent describes and claims:—

1. Making galvanic batteries to revolve.
2. In respect to galvanic batteries, the use of half porous and half glazed diaphragms, a rotative action by which the plates or electrometers are dipped into or lifted out of the acids (more or less) at pleasure, a mode of entirely emptying the apparatus of the nitric acid when requisite; a hollow axis or axes, pipe and reservoir, by which the nitric acid fumes are carried off and collected, and certain electro-magnets and parts in immediate connection therewith, whereby the electric current is maintained at nearly one uniform strength; as also an apparatus for increasing or diminishing the resistance to be overcome by such revolving batteries.

3. Certain modifications of the revolving galvanic battery.

4. A revolving battery, in so far as regards the employment of three fluids, of which one (the concentrated sulphuric acid) is used to prevent the two others (the nitric acid and dilute sulphuric acid) from mixing, and the arrangements by which such separation is effected; and also certain modifications of the said three-fluid battery.

5. A self-supplying revolving battery, and a modification thereof, in so far as regards certain mechanical arrangements, by which the expansion or reduction of the strength of the current generated by the battery is made to be itself the means of obtaining a fresh supply of the necessary elements.

6. The employment in galvanic batteries of diaphragms and cones composed of graphite, made plastic by pulverization and mixture with bituminous substances; also a particular form of graphite diaphragm, and a diaphragm partly composed of plastic graphite and partly of glass or porcelain.

7. Certain hydro-voltaic chain batteries, in so far as respects the arrangement by which every link is made to constitute of itself a separate and distinct battery, having a positive and negative electro-motor; and also the combination therewith of moderators and indicators.

8. Three several modes of changing the direction of electric currents; that is to say—1. The regulation of the changes of the poles in such manner that between each change and that which follows next the power of the current shall gradually increase from a minimum to a maximum, and then in the gradual manner decline from a maximum to a minimum, at which last point (alone) the change takes place.—2. The producing of the changes in two or more parts of magnetic conductors, by means of a single apparatus, and in such manner that, whilst the current in one conductor is gradually increasing in power, that in the other is gradually diminishing, and the change of direction is produced at the moment when the diminishing current attains to its minimum; and—3. The mode of producing the change of power by either gradually increasing the surfaces of the electrometers in the case of moveable batteries, or by the successive introduction (in the case of stationary batteries) into the electric currents of resisting bodies.

9. An electro-magnetic arrangement for the production of mechanical power; that is to say, in so far as regards the combination of a single galvanic battery with two cylinders covered with electro-magnets, and the enveloping or connecting these magnets, the whole or part of them, by coils of conducting wires, and the other parts in immediate and necessary connection therewith; also a modification of the said arrangement, wherein three or more cylinders, covered with electro-magnets as aforesaid, are used instead of two.

10. A governor for regulating the degrees of immersion of the electrometers into the exciting fluids.

11. An electro-magnetic motive engine, in the general arrangement and construction of parts of which the same consists, and more especially in respect of a method by which a continuous and unintermittent action is produced from two sets of electro-magnets, and the necessity for a fly-wheel thus dispensed with.

12. A magneto-electric rotary engine; also a modification thereof, wherein three flat plates are employed as the magnets.

13. Certain improvements in electric telegraphs; that is to say, in so far as regards—1. A method of varying the intensity of the current, either by increasing or diminishing the number of elements employed, or by interposing more or less powerful resistants to the current.—2. The imprinting letters or signs by one completion of the current.—3. The substitution of a letter cylinder for the letter wheel ordinarily employed, and a method of arranging the letters and signs on such cylinder.—4. The application of double escapements, each capable of assuming four directions, and each producing effects different from those produced by the others.—5. The employment of four electro-magnets to act on two soft iron bars, and thereby render a weak galvanic current available in two directions, and productive of two separate and distinct effects; and—6. The method of gradually detaching the keeper from the electro-magnet, by causing the springs which act upon the keeper to come only successively into operation.—14. A flat arrangement of electro-magnets.

SKIN DISEASES, CUTANEOUS ERUPTIONS, RINGWORM, AND SCORBUTIC HUMOURS CURED BY HOLLOWAY'S CINNAMT AND PILLS.—The virulence of these complaints is very much increased by the impurity of the blood; therefore, to cleanse the same is the first step towards checking the baneful effects of these maladies in the constitution, and there is no medicine so efficient for this purpose as Holloway's pills, with which should be applied his invaluable ointment, as when combined, there is no disease of the skin that can resist their curative powers. For the cure of old wounds, bad legs, glandular swellings, and ulcerous sores, these medicines are unequalled.—Sold by all druggists, and at Professor Holloway's establishment, 244, Strand, London.

THE PATENT IMPULSORIA.—An ingenious means of applying animal power to the working of railways, so as to supersede the costly locomotive engine, has lately been invented in Italy, and exhibited experimentally upon the South-Western Railway. It consists in introducing the animals into a kind of coach, called impulsonia, by which they transmit their acting power to the leading wheels. This transmission is conveyed by very simple means, rendering useful both the driving power of the animals and their own weight. The horse being thus introduced into the impulsonia, is placed upon a perfectly rectilinear, artificial ground, or platform, turning so easily that the animal, which is yoked to the shafts, when it walks does not itself advance; but, what amounts to the same thing, the platform itself is pushed backward. By this artificial ground platform, called by the patentee *pedivella*, is moved a tree, around with a pulley, from which, by means of a rope the motion is conveyed to the axle-tree of the leading wheels. The varying proportions between the diameters of the pulleys give different degrees of speed. The horses are to be worked always at their usual pace, whilst the new locomotive will be able to run at any requisite speed, even at 60 miles an hour, without even altering the usual walking pace of the horses, which are inside the impulsonia, as on the floor of a room, sheltered from the weather. The importance of introducing the horses into the carriage, in order to get more speed from the surplus of the acting power, had long been thought of; and the principle has been several times attempted, in England, France, and Italy; but hitherto without success. The new machine, whose inventor is Signor Clemente Masserano, from Pignerol, Piedmont, has been brought from Italy to England, and deposited at the Nine-Elms terminus of the South-Western Railway, where it may be seen working on the line. It has been made for two horses only, and they work it very well on the *pedivella*. More than 30 wagons have been already experimentally drawn by it up the very inclined line of the station. For working it up and down the station, a wagon is fastened to it, when it attains a speed of 7 miles an hour. In the experiment to be made on the great line, it is expected to gain a speed of from 15 to 20 miles an hour, and it is calculated that an engine of two horses will run at a speed superior to that of a steam-engine. The impulsonia runs either way, like the steam-engine; but the driving-horses do not change direction or movement. They can instantly be stopped, without dropping the machine; and the machine can likewise be stopped, while the horses continue to walk on the *pedivella*, without transmitting motion to the leading wheels. By the simple manner in which the horses exercise their moving power on the new machine, they can work easily the usual time (commonly about eight hours a day). During these eight hours, the impulsonia can run at least over 30 miles eight times; and as four horses cost not much more than two shillings each per day, it would be an expense of eight shillings only, instead of 6d. on account of coke only, the cost of which is sixpence each mile run. Such economy is of the utmost importance to the numerous interests engaged in the railways, subject to enormous working expenses. According to the statements by Dr. Lardner, in his valuable work on "Railway Economy," the locomotive power and stock absorb always more than half, and often four-fifths of all the working expenses. But the principal advantage of the new machine will be to afford very cheap locomotive small branch lines, thus extending the advantage of the railway to localities hitherto impracticable from the expensive moving power. The directors of the South-Western Railways were the first to receive the propulsion on their line, where they have granted every facility to its ingenious inventor; for which courtesy he has especially to thank the engineer-in-chief of the locomotive department, Mr. Gooch, and his assistant, Mr. Trewhick.

RAILWAY POINTS AND CROSSINGS.—Mr. William Campbell, C.E., the resident engineer of the Edinburgh and Bathgate Railway, at Uphall, read a paper at a late meeting of the Royal Scotland Society of Arts, in which he described a sketch of railways, sidings, &c., showing the positions of the points and crossings, working drawings of the switch and stock, or fixed rail, and the crossing rails as executed on the Edinburgh and Bathgate Railway, full-size cross sections at the points of the model, the common and the patent switches, showing the different methods of leading off one rail on to another, the position of the rail in the chair, &c. The improved switch, of which a full-size model was shown, is on its bottom side the same as the common make; while on its top side it resembles the patent switch, but is simpler to make, is equally efficient, and will stand more fatigue. He had made careful examination of the points on the principal lines, and observed their great tear and wear; therefore, in the model the bearing surface is neither notched nor undercut—the inside of the top of the switch being bent with a twist, so as to pass under the top flange of the stock rail. The top of the switch not being mitered into the underside of the bearing surface of the stock rail, it is not liable to be locked by the barbing over of the stock from the pressure of the wheels, as happens to the general make of the patent switch, and others which resemble it in cutting under the top flange of the stock. A cut of rail, rusted and varnished in the end, showed the laminating structure of the top of the rail, which is the part that gives way under traffic, by scaling off from the constant impact of the wheels. This is kept in view in the make of the improved switch. The cutting away part of the under flange of the stock, while it does not materially weaken it, allows a broader and steadier base for the switch; and stones will not so readily rest between and prevent the shutting of the switch. The drawings showed how the common make of switch possessed the advantage of a straight face and continuous bearing surface in great perfection, although, from consisting of two parts, was much less durable at the point than the model. The author was not aware of anything having been done to meet the tear and wear of the crossing point, notwithstanding the weight of the engines in use. Any contrivance of the main road must be very secure; but at stations where there is much traffic, while the transit is slow, the wheels might be assisted over the interval at the crossing point by a piece of iron, keyed between the rails, having its surface 1 in. below the top of the rail, and tapering down at each end, on which the flange of the wheel would run till the face again touched the rail, and so be prevented from falling, as it does, off the steamed point with a blow on the knee of the wing rail, which is the point that gives way. This is similar to what is done at the crossing of the bars on a turn-table. The chair is laid level on the sleeper; but the seat of the rail is inclined 1 in 15 in the chair, so as to give the rail an equal cant its whole length, to meet the cone of the wheel. The inside jaw of the joint chair should fit close up under the flange of the rail; but the intermediate chair should not rise quite so high, and be slightly rounded on the inner face, to allow the rail to adjust itself to the joints, which are first keyed and spiked firm. Mr. Campbell's improvement has been highly approved by engineers and others acquainted with the practical department of railways; and, on the above occasion, called forth the unanimous thanks of the Society of Arts.

THE RAILWAYS OF THE WORLD.—One of the most surprising circumstances attending the creation of railways is the amount of capital which, within a limited period, has been expended in their construction and equipment. According to the calculations supplied in the work before us, there were in operation at the commencement of 1849, in different parts of the globe, total length of 18,656 miles of railway, on which a capital of 368,567,000£. had been actually expended. Besides this, it is estimated that there were at the same epoch, in progress of construction, a further extent of 7829 miles, the cost of which, when completed, would be 146,750,000£. Thus, when these latter lines shall have been brought into operation, the population of Europe and the United States (for it is there only that railways have made any progress) will have completed, within the period of less than a quarter of a century, 26,485 miles of railway—that is to say, a greater length than would completely surround the globe, at a cost of above 500,000,000£. sterling. To accomplish this stupendous work, human industry must have appropriated, out of its annual savings, 20,000,000£. sterling for 25 successive years! Of this prodigious investment, the small spot of the globe which we inhabit has had a share, which will form not the least striking fact in her history. Of the total length of railways in actual operation in all parts of the globe, 27 miles in every 100 are in the United Kingdom! But the proportion of the entire amount of railway capital contributed by British industry is even more remarkable. It appears that, of the entire amount of capital expended on the railways of the world, 54£. in every 100£. and of the capital to be expended on those in progress, 68£. in every 100£. are appropriated to British railways!

DUBLIN AND BELFAST JUNCTION RAILWAY.—Mr. Dargan on Tuesday last recommended the work on this line, at Portadown, and intends to proceed rapidly with it until completed. It is now three years since the works on this line first commenced, between 5000£. and 6000£. having been then expended on it.

STEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS to CEYLON, MADRAS, CALCUTTA, PENANG, SINGAPORE, and HONG-KONG.

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BOMBAY.—Passengers for Bombay can proceed by this company's steamers of the 29th of the month to Malta, thence to Alexandria by her Majesty's steamers, and from Suez by the Honourable East India Company's steamers.

MEDITERRANEAN.—**MALTA.**—On the 20th and 29th of every month. **CONSTANTINOPLE.**—On the 29th of the month. **ALEXANDRIA.**—On the 20th of the month.

SPAIN AND PORTUGAL.—Vigo, Oporto, Lisbon, Cadiz, and Gibraltar, on the 7th, 17th, and 27th of the month.

For plans of the vessels, rates of passage-money, and to secure passages and ship cargo, apply at the company's offices, No. 122, Leadenhall-street, London; and Oriental-place, Southampton.

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Mr. Nesbit's works—*Elementary Chemistry, Mensuration, Gauging, Arithmetic, English Parsing, &c.*, will be had of all booksellers.

Reviewers.—Dr. D. B. Held, F.R.S.E., &c., House of Commons, Westminster; R. Prosser, Esq., C.E., Birmingham; J. L. Bullock, Esq., Editor of *Fresenius's Chemical Analysis*, Conduit-street; J. Gardner, Esq., M.D., Editor of *Liebig's Letters*, &c., Mortimer-street, Portland-place; and W. Shaw, Esq., Strand, London.

SCHOOL OF CHEMISTRY, MINERALOGY, AND AGRICULTURE.

Kennington, near London, July 1, 1850.

Meers. NESBIT take the liberty of directing the attention of Parents to the advantages offered by their establishment in the EDUCATION OF YOUTH intended for the Arts, Manufactures, or Agriculture. Though the power, influence, and wealth of England depend, in a great measure, upon the proper application of scientific knowledge to the working of her minerals and soils; yet, in the education of her youth, Science has hitherto been almost wholly neglected.

It is, however, evident that a young man, who, in addition to the common education, possesses a sound knowledge of Analytical Chemistry, Mineralogy, and other kindred subjects, will be the best prepared to engage with success in any technical branch of business for which he may be destined.

In their system of instruction, Meers. NESBIT give a prominent position to the Physical Sciences; and experience has proved that, instead of retarding the pursuit of the ordinary studies, they materially assist in their acquirement.

The pupils have repeatedly been examined by some of the first professors in the metropolis, who have expressed themselves highly gratified with their general knowledge, and with their attainments in Physical Science.

Terms and other particulars may be known on application.

“The School will be Re-opened on Monday, July 22, 1850.

BOTTLE HILL TIN AND COPPER MINE.

Capital £4000, in 5000 shares, of £2 each.

No further call will be required, and no liabilities.

CONDUCTED ON THE COST-BOOK SYSTEM, which limits the liabilities of the shareholders to the amount subscribed.

BANKERS.

Royal British Bank, London; Devon and Cornwall Banking Co., Plymouth & Tavistock.

SECRETARY.

Emmanuel Brown, Esq., 16, Cheyne-street, London.

A meeting of shareholders will shortly be held, of which due notice will be given, when the committee of management and other officers will be elected.

PROSPECTUS.

Bottle Hill Tin and Copper Mine is situated in the parish of Plympton St. Mary, in the county of Devon, about seven miles from Plymouth, and two miles from the Plymouth station of the South Devon Railway. The mine is not extensive, being about one mile in length on the course of the lodes east and west, of which there are six in number, and about half a mile from north to south. The north part of this set is composed of granite, of a character congenial for mineral deposits—the old workings being in kilns, or clay-shafts, a few feet apart, some cross-courses, and several small ones running north and south. The deep adit has been brought up to drain the mine, at a cost to the late adventurers of £12,000, an engine-shaft sunk 110 fathoms from surface, giving 60 fathoms of backs above the deep adit level. A great portion of this ground could be taken away at a tribute of 10s. in £1, within one month from the commencement of operations, which would very considerably assist the cost of the mine. In order that the workings should be fairly and regularly prosecuted, it is necessary that a steam-engine should be erected, which will prevent any delay at any season; it having been ascertained that in very dry summers and severe winters operations have been suspended nearly three months in the year, but it is considered that the engine would not be required more than two months, on an average, during the year. The expense of this steam-power having been taken into consideration by the lord, he liberally reduced the dues to 1-20th.

It will be seen from the following reports, that this mine was abandoned by the late adventurers at the very time when good returns of the were being made, but the water-wheel having been broken down, and the machinery generally not being in a fit state to work the mine, and the tin market being at that time very depressed, many of the shareholders decided to expend money in the erection of any new.

Tin and copper ores were sold during the last workings of the mine to an amount exceeding £100,000, which is sufficient to prove the character of the sett.

There is now left in the bottom of the 50 fathom level a large quantity of tin-stuff already broken, with tramroad, wagon, miners' tools, and the bottom of a 14-inch plumber, which, with the counting-house, agent's house, material house, smiths' shop, and burning-house at surface, cannot be taken at a less value than £1000. The mine will be worked strictly on the Cost-Book Principle.

Application for the remaining shares to be made to the Secretary, at the office of the company; and to George Trickett, Esq., Post-office Chambers, Plymouth; Meers. Simons and Co., Tavistock; and to Joseph Sergeant Linton, Cambridge—where every information may be had, and specimens seen with the reports of the mine.

Tribute pitches have been taken at 2s. in the £1.

Among the numerous specimens of agricultural and horticultural machinery and manufacture exhibited at the Royal Polytechnic institution, are some tiles for the better growth and cultivation of strawberries, deposited there by the inventor, Mr. Roberts, of North Brixton. These tiles, when placed in pairs, leave a round hole in the centre to enclose the plant, while the fruit and leaves rest on the flat surface of the tile, and are kept totally free from wet and dirt, the tile retaining the heat for many hours after sunset, consequently ripening the fruit much earlier than by the common system; in proof of this, the only out-door growth of strawberries exhibited at the late meeting of the Botanic Society, were raised by this plan, by the above-named gentleman.

ACCIDENTS.

Callington Mines.—R. Rickard was sadly injured by the ground falling in upon him.

Polderris Mine.—J. Tamlyn and W. Kent were killed by a piece of ground falling out on them from the back of the level wher they were at work, and burying them.

Ricca Colliery.—William Moor was killed at the Ricca coal works, in consequence of falling from the top of the stall in which he worked. About a tramfull of rubbish fell upon him; he called out to some of the nearest men to extricate him, but before he could be rescued, a stone 6 or 7 cwt. fell on his head, killing him instantly.

Wishaw.—While the miners were at work in No. 4 pit, a portion of the roof fell in when four of the workmen who happened to be under it were killed on the spot. David Muirhead has left a widow and large family. R. Hunter a widow and young child, and Muirhead and Douglas, both young men. The poor fellows were working in opposition to the wishes of the old hands, who have been for a number of weeks on strike for an advance of wages.

Merthyr.—William Jones was killed by a fall of roof while working in one of the Pantyfan pits.

Aberdare.—H. Giddery was killed at the Gadd's New Pit.

John Phillips was killed by a fall of coal at Hirwaun.

John Zachariah was killed by a fall of coal in the level of Yr Avon, Abernant.

Oldham.—Joseph Ashcroft, aged 12 years, while acting as wagoner at the New Engine Pit, Chadderton, was adjusting the coals in his wagon, when a prop, placed to keep the waggon on the rails, gave way, and caused him to be jammed against the roof. The lad, after lingering in great agony about 12 hours, expired.

Brierley Hill.—J. Winslow was killed by a fall of coal in a colliery at Pensnett Common.

Derbyshire.—Moses Aram was killed by a fall of stone while working in the coal pit of Meers. Barber and Walker.

COAL MARKET, LONDON.

PRICE OF COALS PER TON AT THE CLOSE OF THE MARKET.

MONDAY.—Budgie's West Hartley 13 6—Carr's West Hartley 13 6—Chester Main 12 6—Davidson's West Hartley 13 6—East Adair's Main 11 6—Holywell 14—North Percy Hartley 13 6—Ravensworth West Hartley 12 6—Tanfield Moor 12 6—Tanfield Moor Bute 11 6—Towley 11 6—West Hartley 13 6—West Wylam 12—Wylam 13 3—Walls' End 11 6—Towley 11 6—Gosforth 13—Hilda 13—Northumberland 13 3—Walker 12 9—Eden Main 13 9 and 14—Lambton Primrose 14 3—Belmont 14—Bradbury 15—Hutton 15 6—Hawell 15 9—Lambton 15—Russell's Hutton 15—Stewart's 15 9—Caradoc 13 9—Heugh Hall 13 6—Seymour Hartlepool 14—South Hartlepool 14—Thornley 14—Whitworth 13—Brown's Deanery 13—Seymour Tessa 12 9—Tees 15 6—Cowpen Hartley 13 6—Hartley 12 6—Howard's West Hartley Netherton 13 6—Nixon's Mythe 13 6—Cardiff 13 6—Sidney's Hartley 13 6—Ships at market, 140; sold, 85.

WEDNESDAY.—Budgie's West Hartley 13 6—Carr's West Hartley 13 6—Chester Main 12 6—Davidson's West Hartley 13 6—East Adair's Main 11 6—Holywell 14—North Percy Hartley 13 6—West Wylam 12 6—Walls' End 12 6—Bewicks and Co. 13 3—Brown's 13—Hawell 12 6—Northumberland 13 3—Riddell 13—Walker 13—Russell's Hutton 15—Scarborough 13 6—Stewart's 15 6—Whitwell 13—Denison 13—Hawell 13 6—Hartlepool 15 6—Kallio 14—Seymour Hartlepool 14—Whitworth 13—Aldgate Tessa 14 6 and 14 9—Seymour Tessa 12 9—Tees 15 6—Cowpen Hartley 13 6—Hartley 13 6—Howard's West Hartley Netherton 13 6—Nixon's Mythe 13 6—Cardiff 13 6—Ships at market, 99; sold, 72.

FRIDAY.—Budgie's West Hartley 13 6—Carr's West Hartley 13 6—Chester Main 12 6—Davidson's West Hartley 13 6—Holywell 14—North Percy Hartley 13—Ravensworth West Hartley 12 6—West Wylam 12—Wylam 13 6—Hawell 13—Hawell 15 9—Kepier Grange 15—Richmond 13 9—Lumley 13 6—Scarborough 13 9—Russell's Hutton 15—Stewart's 15 6—Whitwell 13 6—Heugh Hall 13 6—Hartlepool 15 6—Kallio 14 6—South Kallio 13 6—Whitworth 12—Adelaide Tessa 14 6—Tees 15 6—Ships at market, 99; sold, 49.

CAMERON'S COALBROOK STEAM COAL & SWANSEA

AND LOUGHOR RAILWAY COMPANY.—CONTRACT FOR WAGGONS.

The Directors are prepared to RECEIVE TENDERS for the SUPPLY of WAGGONS, to be used on their railway, now in course of construction, to be delivered at Llanelli by the 20th September next.—Specification may be seen at the Company's office, here, or at the works.

By order of the Directors,

Offices, 2, Moorgate-street, London, July 3, 1850. A. C. HOWDEN, Secretary.

IMPROVED LIFTING JACKS.

MANUFACTURED BY

W. AND J. GALLOWAY,

PATENT RIVET WORKS,

MANCHESTER.

HALEY'S PATENT

LIFTING JACK.

HALEY'S PATENT